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Section I
Table 1

MARKET ECONOMIES OIL CONSUMPTION AND PRODUCTION,(1)
HISTORY AND PROJECTIONS, MIDPRICE SCENARIO
(Million Barrels per Day)

Supply and Disposition	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1995
Consumption												
United States(2)	17.5	16.5	15.6	15.5	16.0	16.1	16.4	16.7	16.8	16.9	16.9	17.7
Canada	1.9	1.8	1.6	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.6	1.6
Japan	5.0	4.8	4.6	4.5	4.5	4.5	4.7	4.9	5.0	5.0	5.0	5.1
OECD Europe	13.5	12.5	12.2	11.8	12.1	12.5	12.9	13.2	13.3	13.2	13.1	12.6
OPEC	2.7	3.0	2.9	3.1	3.1	3.2	3.4	3.6	3.8	4.0	4.2	5.2
Other Countries	9.0	8.9	8.9	8.8	8.9	9.1	9.4	9.7	9.8	9.9	10.0	11.1
Total Consumption	49.6	47.4	45.9	45.2	46.1	47.0	48.4	49.7	50.3	50.7	50.9	53.2
Production												
United States	10.8	10.7	10.8	10.8	10.8	10.9	10.9	10.8	10.9	11.0	10.9	10.5
Canada	1.8	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.0
OECD Europe	2.6	2.9	3.4	3.9	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.6
OPEC	27.7	23.6	19.7	18.6	19.6	20.5	21.7	22.8	23.2	23.3	23.5	24.2
Other Countries	6.3	6.9	7.6	7.9	8.4	8.8	9.2	9.5	9.9	10.3	10.7	12.7
Total Production	49.2	45.8	43.1	42.8	44.5	45.7	47.3	48.6	49.4	49.8	50.2	52.9
Net Exports from Centrally Planned Economies	1.2	1.5	1.7	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.5
Stock Withdrawals and Discrepancies	-0.8	0.2	1.1	0.6	-0.1	-0.3	-0.4	-0.3	-0.3	-0.3	-0.3	-0.1

(1) Includes crude oil, natural gas liquids, refinery gains, hydrogen, and other hydrocarbons.
(2) Includes Puerto Rico and Virgin Islands.
Note: The market economies exclude the Centrally Planned Economies of Eastern Europe (including Yugoslavia), the Soviet Union, China, Cuba, Kampuchea, North Korea, Laos, Mongolia, and Vietnam. Numbers may not add to total because of rounding.

Source: U.S. Energy Information Administration, Annual Energy Outlook

Section I
Table 2

MARKET ECONOMIES ENERGY PROJECTIONS: COMPARISON OF EIA MIDPRICE PROJECTIONS WITH OTHER PROJECTIONS FOR 1985, 1990, AND 1995
(Million Barrels per Day of Oil-Equivalent)

Projection	Consumption		Production		CPE Net Oil Exports
	Energy	Oil	OPEC	Other	
1981 Actual	95	47	24	22	1.5
1985 Projections					
EIA	98	47	21	25	1.6
Tenneco (August 1982)	100	48	NA	NA	NA
IEA, Paris (October 1982)	NA	48-50	23-26	24-25	1.0-(1.0)
Socal (June 1983)	100	47	21	22	NA
PPA/DOE (October 1983)	98	47	23	23	0.7
DRI (Winter 1983)	NA	47	21	24	1.6
Texaco (December 1983)	101	47	21	24	1.5
Conoco (April 1984)	98	46	19	26	1.0
1990 Projections					
EIA	110	51	24	27	1.0
Tenneco (August 1982)	110	50	NA	NA	NA
IEA, Paris (October 1982)	NA	50-56	27-29	23-25	0.0-(2.0)
Socal (June 1983)	113	49	21	22	NA
PPA/DOE (October 1983)	108	51	26	25	0.0
DRI (Winter 1983)	NA	51	25	26	0.3
Texaco (December 1983)	113	50	25	24	0.5
Conoco (April 1984)	108	48	22	25	1.0
1995 Projections					
EIA	119	53	24	29	0.5
Tenneco (August 1982)	118	52	NA	NA	NA
IEA, Paris (October 1982)(3)	NA	54-65	26-29	24-26	0.0-(2.0)
Socal (June 1983)	126	52	24	22	NA
PPA/DOE (October 1983)	118	52	27	25	0.0
DRI (Winter 1983)	NA	54	28	26	(0.6)
Texaco (Winter 1983)(3)	125	52	29	23	0.3
Conoco (April 1984)	118	51	26	25	0.0

NA = Not Available

(1) Excludes 3.7, 3.9, and 4.3 million barrels per day oil-equivalent of natural gas liquids for 1985, 1990, and 1995, respectively.

(2) Includes 0-4 and 4-12 million barrels per day of excess demand for 1990 and 1995, respectively.

(3) Extrapolated from projections for 1990 and 2000.

Note: The market economies exclude the Centrally Planned Economies of Eastern Europe, the Soviet Union, China, Cuba, Kampuchea, North Korea, Laos, Mongolia, and Vietnam. Numbers in parentheses are net imports. Oil consumption and projection numbers may not balance because of rounding.

Source: U.S. Energy Information Administration, Annual Energy Outlook

Section I
Table 3

SELECTED UNITED STATES ECONOMIC, DEMOGRAPHIC, AND ENERGY INDICATORS

Year	Gross National Product (Billion $ 1972)	Population (Millions)	Gross Energy Input[1] (Quadrillion Btu)	Gross Energy Per Dollar of 1972 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	470.3	144.1	33.0	70.2	229.0
1948	489.8	146.6	33.9	69.2	231.2
1949	492.2	149.2	31.5	64.0	211.1
1950	534.8	152.3	34.0	63.6	223.2
1951	579.4	154.9	36.8	63.5	237.6
1952	600.8	157.6	36.5	60.8	231.7
1953	623.6	160.2	37.6	60.3	234.7
1954	616.1	163.0	36.3	58.9	222.7
1955	667.5	165.9	39.7	60.4	239.3
1956	671.6	168.9	41.7	62.1	246.9
1957	683.8	172.0	41.7	61.0	242.2
1958	680.9	174.9	41.7	61.2	238.4
1959	721.7	177.8	43.1	59.7	242.4
1960	737.1	180.7	44.6	60.5	246.8
1961	756.6	183.8	45.3	59.9	246.5
1962	800.3	186.5	47.4	59.2	254.1
1963	832.5	189.2	49.3	59.2	260.5
1964	876.4	191.8	51.2	58.4	266.9
1965	929.3	194.3	53.3	57.4	274.3
1966	984.8	196.6	56.4	57.3	286.9
1967	1,011.4	198.7	58.3	57.6	293.4
1968	1,058,1	200.7	61.7	58.3	307.4
1969	1,087.6	202.7	65.0	59.8	320.7
1970	1,085.6	205.1	67.1	61.8	327.2
1971	1,122.4	207.7	68.3	60.9	328.8
1972	1,185.9	209.9	71.6	60.4	341.1
1973	1,254.0	212.0	74.6	59.5	351.9
1974	1,246.0	213.9	72.7	58.3	339.9
1975	1,232.0	216.0	70.5	57.2	326.4
1976	1,298.0	218.4	74.3	57.2	340.2
1977	1,370.0	220.2	76.2	55.6	346.1
1978	1,439.0	222.6	78.0	54.2	350.4
1979	1,479.0	225.6	78.8	53.3	349.3
1980	1,475.0	227.7	75.9	51.5	333.3
1981	1,514.0	229.3	73.9	48.8	322.3
1982	1,485.0	231.5	70.8	47.7	305.8
1983	1,535.0	234.0	70.6	46.0	301.7

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(1) Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal, including imports or their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

Source: U.S. Bureau of Mines, Press Release, March 14, 1977
U.S. Department of Commerce: U.S. Bureau of Census, Current Population Reports

Section I
Table 4

COMPARISON OF MIDPRICE ENERGY SUPPLY/DEMAND PROJECTIONS FOR 1990
(Quadrillion Btu per Year)

	AEO 1983	AEO 1982(1)	DRI Winter 83/84(2)	Chase IV/84(3)	Wharton Nov 83(4)	NEPP 1983(5
Domestic Energy Supply						
Oil	20.8	19.3	20.0	17.9	18.7	19.0
Natural Gas	16.7	16.4	16.1	15.9	17.9	18.2
Coal	23.1	23.9	21.7	21.9	24.3	24.5
Hydroelectric/ Geothermal/Other	3.3	3.2	3.8	4.0	3.7	3.4
Nuclear Power	6.3	6.3	6.1	4.8	6.2	6.5
Total Domestic Production	70.3	69.1	67.7	64.5	70.8	71.6
Net Imports						
Oil	12.6	15.1	12.5	14.9	14.2	12.4
Natural Gas	1.3	1.2	2.2	2.4	0.8	1.9
Coal, Coke, and Electricity	-2.4	-3.4	-2.8	-2.2	-3.8	-3.2
Total Supply	81.7	82.0	79.7	79.7	82.0	82.7
Consumption						
Residential	9.2	9.3	8.7	9.1	--	10.3
Commercial	7.1	6.9	6.4	6.1	--	7.2
Industrial	22.9	24.1	23.8	23.9	--	25.0
Transportation	19.5	16.9	19.0	19.1	--	16.7
Total End-Use Consumption	58.7	57.2	57.9	58.4	--	59.2

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(1) Industrial total does not include natural gas as a lease and plant fuel.

(2) Industrial total excludes hydroelectric power, solar energy, and exotic energy forms but includes natural gas used for lease and plant fuel and as a raw material. Transportation total excludes natural gas used as a transportation fuel.

(3) Sectoral consumption totals exclude electricity conversion losses. Natural gas used as a pipeline fuel has been from the transportation sector total.

(4) Electricity conversion losses incorporated in Wharton's sectoral energy consumption projections.

(5) Renewable energy consumption has been excluded from residential, commercial, and industry totals. Natural gas used by the transportation sector has been excluded from that sector's total consumption.

(6) Total supply includes adjustments for stock changes, gains, losses, unaccounted-for supply, etc.

Source: U.S. Department of Energy, Annual Energy Outlook 1983.

Section I
Table 5

PROJECTIONS OF U.S. ENERGY DEMAND BY SECTOR FOR 1990
(Quadrillion Btu per Year)

Sector	AEO 1983	AEO 1982	DRI Winter 83/84	Chase IV/84	NEPP 1983(1)
End-Use Consumption					
Residential					
Oil and LPG	1.6	1.9	1.3	1.8	1.9
Natural Gas	4.6	4.3	4.4	4.4	5.3
Coal	0.1	0.1	0.1	0.1	0.1
Electricity	3.0	3.0	2.9	2.9	3.0
Total	9.2	9.3	8.7	9.1	10.3
Commercial					
Oil and LPG	1.3	1.5	0.9	0.9	1.1
Natural Gas	2.9	2.5	2.8	2.6	3.1
Coal	0.1	0.1	0.1	0.2	0.1
Electricity	2.8	2.8	2.5	2.5	2.8
Total	7.1	6.9	6.4	6.1	7.2
Industrial					
Oil and LPG	9.3	10.7	9.2	9.3	9.4
Natural Gas	6.6	6.0(2)	7.2	7.8	8.5
Coal	3.5	3.6	3.8	3.2	3.6
Electricity	3.5	3.8	3.6	3.5	3.5
Total	22.9	24.1	23.8	23.9	25.0
Transportation(3)					
Oil and LPG	19.5	16.9	19.0	19.1	16.7
Electric Utility					
Oil	1.6	4.0	2.2	2.0	2.0
Natural Gas	3.3	2.4	3.0	2.7	2.6
Coal	16.5	16.3	14.6	16.1	17.3
Nuclear Power	6.3	6.3	6.1	4.8	6.5
Other	3.7	3.2	4.3	3.9	3.5
Total	31.4	32.2	30.2	29.5	31.9

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(1) Renewable energy consumption excluded from all but the electric utility sector totals.
(2) Lease and plant fuel excluded from industrial natural gas end-use consumption.
(3) Pipeline gas not included under transportation end-use demand.
(4) Includes hydroelectric, geothermal, and other (woodwastes, solar, wind).

Source: U.S. Department of Energy, Annual Energy Outlook 1983

Section I
Table 6

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)

(Trillion Btu)

Year	Coal(2)	Petroleum(3)	Natural Gas Dry	Hydro-power(4)	Nuclear Power(4)	Total Consumption
1947	15,824	11,367	4,518	1,326	-	33,035
1948	14,897	12,557	5,033	1,393	-	33,880
1949	12,631	12,119	5,289	1,449	-	31,488
1950	12,913	13,489	6,150	1,440	-	33,992
1951	13,225	14,848	7,248	1,454	-	36,775
1952	11,868	15,334	7,760	1,496	-	36,458
1953	11,893	16,098	8,156	1,439	-	37,586
1954	10,195	16,132	8,548	1,388	-	36,263
1955	11,540	17,524	9,232	1,407	-	39,703
1956	11,752	18,627	9,834	1,487	-	41,700
1957	11,168	18,570	10,416	1,551	1	41,706
1958	9,849	19,214	10,995	1,636	2	41,696
1959	9,810	19,747	11,990	1,591	2	43,140
1960	10,140	20,067	12,699	1,657	6	44,569
1961	9,906	20,487	13,228	1,680	18	45,319
1962	10,189	21,267	14,121	1,821	24	47,422
1963	10,714	21,950	14,843	1,767	34	49,308
1964	11,264	22,386	15,648	1,907	35	51,240
1965	11,908	23,242	16,097	2,058	38	53,343
1966	12,495	24,395	17,392	2,073	57	56,412
1967	12,256	25,335	18,250	2,344	80	58,265
1968	12,659	27,052	19,580	2,342	130	61,763
1969	12,733	28,421	21,020	2,659	146	64,979

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Includes anthracite, bituminous, lignite coal, and imported coke.

(3) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

(4) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree and J.A. West: "United States Energy Through The Year 2000," December 1972

Section I
Table 6a

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)

(Trillion Btu)

Year	Coal(2)	Petroleum(3)	Natural Gas Dry	Hydro-power(4)	Nuclear Power(4)	Total Consumption
1970	12,698	29,537	22,029	2,650	229	67,143
1971	12,043	30,570	22,469	2,862	404	68,348
1972	12,461	32,966	22,699	2,929	577	71,643
1973	12,903	34,840	22,512	3,010	910	74,212
1974	12,596	33,455	21,732	3,309	1,272	72,479
1975	12,601	32,731	19,948	3,219	1,900	70,485
1976	13,519	35,175	20,345	3,066	2,111	74,297
1977	13,848	37,122	19,931	2,515	2,702	76,215
1978	13,710	37,965	20,000	3,141	3,024	78,039
1979	14,983	37,123	20,666	3,141	2,776	78,845
1980	15,373	34,202	20,391	3,118	2,739	75,900
1981	15,860	31,931	19,926	3,105	3,008	73,940
1982	15,291	30,232	18,507	3,592	3,115	70,822
1983	15,877	29,983	17,503	3,857	3,235	70,573

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Includes anthracite, bituminous, lignite coal, and imported coke.

(3) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

(4) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

(5) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines: Press Release, February 1977
U.S. Department of Energy: 1973-1983: Energy Information Administration, Monthly Energy Review

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal(1)	Petroleum	Natural Gas	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs
1947	17,975	10,771	5,012	1,296	—	35,054
1948	17,158	11,717	5,615	1,369	—	35,859
1949	12,557	10,683	5,911	1,425	—	30,576
1950	14,647	11,449	6,841	1,415	—	34,352
1951	15,066	13,037	8,106	1,424	—	37,633
1952	13,262	13,282	8,705	1,466	—	36,715
1953	12,767	13,671	9,116	1,413	—	36,967
1954	11,001	13,427	9,488	1,360	—	35,276
1955	12,745	14,445	10,532	1,360	—	39,082
1956	13,747	15,344	11,252	1,435	—	41,778
1957	13,444	15,346	11,885	1,422	1	42,098
1958	11,201	14,154	12,244	1,592	2	39,193
1959	11,105	14,662(3)	13,361(3)	1,551(3)	2	40,681
1960	11,140	14,664(4)	14,135(4)	1,608(4)	6	41,553
1961	10,751	15,185	14,691	1,656	18	42,301
1962	11,211	15,495	15,365	1,816	24	43,911
1963	12,176	15,741	16,271	1,768	34	45,990
1964	12,854	15,691	17,138	1,886	35	47,604
1965	13,395	15,930	17,652	2,059	38	49,074
1966	13,836	16,925	18,984	2,062	57	51,864
1967	14,215	81,100	20,087	2,347	80	54,829
1968	13,955	18,593	21,548	2,349	130	56,575
1969	14,223	18,886	22,838	2,648	146	58,741
1970	15,067	20,401	24,154	2,630	229	62,481
1971	13,607	20,033	24,805	2,825	404	61,674
1972	14,500	20,041	24,792	2,866	576	62,775
1973	13,926	19,493	24,756	2,861	910	61,993
1974	14,010	18,575	23,681	3,177	1,272	60,770

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(1) Includes anthracite, bituminous and lignite coals.
(3) Includes Alaska
(4) Denotes first year for which figures include Alaska and Hawaii

Source: U.S. Department of Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Press Release

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal(1)	Petroleum	Natural Gas(2)	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs(3)
1975	14,931	17,729	22,014	3,155	1,900	59,801
1976	15,649	17,262	21,807	2,976	2,111	59,886
1977	15,679	17,454	21,892	2,333	2,702	60,142
1978	14,856	18,434	21,730	2,937	3,024	61,049
1979	17,483	18,104	22,362	2,931	2,776	63,744
1980	18,544	18,249	22,161	2,900	2,739	64,708
1981	18,331	18,146	22,006	2,758	3,008	64,376
1982	18,603	18,309	20,446	3,271	3,115	63,851
1983	17,286	18,324	18,621	3,511	3,235	61,113

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(1) Includes anthracite, bituminous and lignite coals.
(2) Includes natural gas plant liquids
(3) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of Energy, Energy Information Administration: Monthly Energy Review

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR(1)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electrical Generation	Miscellaneous and Un-Accounted for	Total Consumption(2)
1947	6,775	12,795	8,791	4,264	410	33,035
1948	7,039	12,322	8,781	4,725	1,014	33,880
1949	6,884	11,369	8,075	4,616	544	31,488
1950	7,593	12,325	8,616	4,981	477	33,992
1951	7,857	13,698	9,206	5,281	733	36,775
1952	7,979	13,098	9,168	5,518	695	36,458
1953	7,757	13,752	9,205	5,891	981	37,586
1954	7,968	12,515	9,113	5,940	727	36,263
1955	8,595	13,991	9,826	6,595	696	39,703
1956	8,963	14,588	10,132	7,082	935	41,700
1957	8,685	14,503	10,229	7,330	959	41,706
1958	9,467	13,507	10,275	7,317	1,130	41,696
1959	9,711	14,040	10,387	7,873	1,129	43,140
1960	10,174	14,642	10,818	8,263	672	44,569
1961	10,373	14,631	10,986	8,537	792	45,319
1962	10,948	15,249	11,415	9,093	717	47,422
1963	11,016	15,908	11,962	9,683	739	49,308
1964	11,143	16,698	12,261	10,375	763	51,240
1965	11,830	17,176	12,714	11,075	548	53,343
1966	12,388	18,028	13,345	12,054	597	56,412
1967	13,015	18,230	14,015	12,728	278	58,265
1968	13,109	19,363	15,156	13,892	243	61,763
1969	13,606	20,107	15,784	15,254	228	64,979
1970	13,988	20,225	16,473	16,242	215	67,143
1971	14,549	19,299	17,076	17,222	205	68,348
1972	14,917	19,835	18,081	18,543	233	71,609
1973	12,275	23,477	18,567	19,852	NA	74,212
1974	11,774	22,560	18,082	20,023	NA	72,479

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(2) Data may not add to totals because of independent rounding.

SOURCE: U.S. Department of the Interior: 1947-1969: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000," December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1974: U.S. Department of Energy, Monthly Energy Review

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR(1)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electrical Generation	Miscellaneous and Un-Accounted for	Total Consumption(2)
1975	11,598	20,300	18,205	20,350	NA	70,485
1976	12,253	21,374	19,058	21,573	NA	74,297
1977	11,875	21,829	19,773	22,694	NA	76,215
1978	11,908	21,815	20,558	23,722	NA	78,039
1979	11,526	22,723	20,429	24,129	NA	78,845
1980	10,721	20,984	19,656	24,501	NA	75,900
1981	10,053	19,654	19,458	24,752	NA	73,940
1982	10,072	17,410	19,029	24,271	NA	70,822
1983	9,761	16,870	18,959	24,975	NA	70,573

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(2) Data may not add to totals because of independent rounding and consumption of geothermal power and electricity produced from wood, waste and wind energy.

SOURCE: U.S. Department of Energy, Monthly Energy Review

Section I
Table 9

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	273,403	7,298	418.3	2,490	2,905,571	3,007	135	459	13,254
1948	244,214	6,516	427.0	2,530	3,164,928	3,276	147	500	12,822
1949	208,919	5,571	415.6	2,466	3,219,197	3,332	142	485	11,854
1950	223,507	5,957	442.4	2,641	3,601,757	3,727	164	559	12,884
1951	238,776	6,403	516.1	3,044	4,107,117	4,251	192	656	14,354
1952	211,146	5,673	515.0	3,034	4,242,986	4,391	200	682	13,780
1953	226,865	6,105	524.7	3,093	4,389,128	4,554	224	765	14,517
1954	179,148	4,860	529.8	3,118	4,383,197	4,537	235	802	13,317
1955	214,946	5,726	566.7	3,330	4,768,562	4,935	295	1,008	14,999
1956	217,810	5,805	626.6	3,688	4,922,139	5,095	326	1,113	15,701
1957	213,404	5,695	595.8	3,478	5,150,413	5,330	332	1,133	15,636
1958	175,600	4,675	570.3	3,292	5,352,294	5,540	323	1,102	14,609
1959	169,924	4,530	625.1	3,589	5,720,756	5,921	356	1,215	15,255
1960	175,225	4,673	643.9	3,682	6,074,114	6,287	383	1,306	15,948
1961	168,090	4,478	642.6	3,682	6,221,668	6,471	383	1,306	15,937
1962	169,995	4,527	678.8	3,880	6,579,008	6,842	411	1,402	16,651
1963	178,201	4,754	702.0	3,994	6,917,738	7,160	429	1,464	17,372
1964	189,561	5,063	744.6	4,184	7,198,706	7,451	453	1,544	18,242
1965	200,688	5,366	740.4	4,139	7,433,200	7,671	479	1,634	18,810
1966	204,945	5,472	781.0	4,353	7,948,486	8,203	524	1,788	19,816
1967	194,595	5,199	798.4	4,432	8,332,614	8,599	547	1,868	20,098
1968	191,602	5,124	897.2	4,965	8,987,095	9,274	599	2,044	21,407
1969	188,586	5,051	943.6	5,171	9,587,670	9,885	632	2,155	22,262

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

Year	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	186,637	5,002	940.4	5,061	9,856,844	10,161	648	2,210	22,434
1971	158,866	4,303	947.9	5,088	9,577,212	9,874	682	2,327	21,592
1972	160,624	4,275	1,058.2	5,643	9,622,659	9,882	741	2,528	22,328
1973	162,745	3,984	1,637.6	9,113	10,184,314	10,388	698	2,376	25,861
1974	155,865	3,800	1,570.9	8,698	9,768,555	10,003	695	2,370	24,930(4)
1975	147,926	3,602	1,474.8	8,151	8,364,706	8,532	697	2,378	22,678(4)
1976	147,035	3,595	1,629.0	9,018	8,597,645	8,761	764	2,606	23,980(4)
1977	139,499	3,394	1,762.6	9,786	8,474,975	8,636	796	2,715	24,545(4)
1978	135,075	3,258	1,783.3	9,890	8,404,528	8,539	819	2,793	24,608(4)
1979	145,770	3,532	1,952.7	10,576	8,397,839	8,549	852	2,907	25,630(4)
1980	127,433	3,103	1,771.6	9,524	8,198,242	8,394	825	2,814	23,798
1981	128,737	3,109	1,562.1	8,295	8,055,555	8,265	835	2,850	22,519
1982	105,351	2,520	1,481.9	7,798	6,935,673	7,116	756	2,575	20,009
1983	103,277	2,458	1,465.4	7,733	6,464,912	6,663	776	2,648	19,502

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

(4) Total includes small amounts of imported coke.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1983: Energy Information Administration, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	128,657	3,399	385.3	2,251	1,087,000	1,125	115	391	7,166
1948	122,994	3,238	436.0	2,539	1,219,402	1,262	130	442	7,481
1949	114,639	3,025	425.5	2,472	1,340,362	1,387	143	488	7,372
1950	110,422	2,913	526.2	3,038	1,586,207	1,642	160	546	8,139
1951	100,057	2,648	552.0	3,202	1,939,034	2,007	180	615	8,472
1952	91,212	2,416	577.1	3,350	2,137,635	2,213	195	666	8,645
1953	77,976	2,072	585.4	3,391	2,216,153	2,294	215	733	8,490
1954	65,425	1,752	630.4	3,650	2,478,205	2,566	234	797	8,765
1955	66,039	1,745	691.7	4,001	2,753,171	2,849	250	854	9,449
1956	61,685	1,629	721.8	4,183	3,044,435	3,151	274	935	9,898
1957	46,382	1,225	703.4	4,069	3,276,185	3,391	299	1,019	9,704
1958	45,005	1,187	788.3	4,568	3,586,025	3,712	321	1,095	10,562
1959	36,700	969	817.5	4,718	3,887,708	4,024	353	1,203	10,914
1960	37,180	983	853.3	4,923	4,123,389	4,268	370	1,262	11,436
1961	32,805	868	871.9	5,028	4,325,427	4,477	406	1,385	11,758
1962	32,955	872	907.7	5,227	4,685,231	4,849	437	1,490	12,438
1963	27,603	731	915.0	5,258	4,856,804	5,027	482	1,645	12,661
1964	22,949	609	903.7	5,191	5,162,009	5,343	525	1,792	12,935
1965	25,676	678	978.0	5,635	5,346,450	5,517	571	1,948	13,778
1966	25,587	677	1,000.1	5,766	5,760,999	5,945	616	2,101	14,489
1967	22,134	585	1,078.9	6,206	6,029,855	6,223	661	2,257	15,271
1968	19,983	529	1,069.5	6,129	6,250,997	6,451	723	2,467	15,576
1969	16,875	447	1,099.6	6,269	6,682,804	6,890	807	2,752	16,358

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West. "United States Energy Through The Year 2000," December 1972

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	16,114	427	1,128.4	6,453	6,984,007	7,108	879	3,000	16,988
1971	15,201	406	1,124.9	6,430	7,480,667	7,713	940	3,209	17,758
1972	11,708	308	1,168.4	6,666	7,733,964	7,943	1,019	3,478	18,395
1973	10,580	259	815.1	4,391	7,476,470	7,626	1,024	3,495	15,771
1974	10,664	260	743.2	3,996	7,341,797	7,518	1,018	3,475	15,249
1975	8,706	212	710.2	3,805	7,432,352	7,581	1,056	3,604	15,202
1976	8,425	206	776.7	4,181	7,719,333	7,866	1,098	3,747	16,000
1977	8,508	207	780.5	4,206	7,321,884	7,461	1,159	3,955	15,830
1978	8,914	215	756.2	4,070	7,503,937	7,624	1,206	4,116	16,024
1979	7,759	188	630.2	3,448	7,751,473	7,891	1,226	4,184	15,710
1980	6,037	147	555.0	3,035	7,347,953	7,539	1,276	4,355	15,076
1981	7,081	171	487.0	2,634	7,065,302	7,249	1,314	4,497	14,550
1982	7,901	189	454.2	2,449	7,244,639	7,433	1,338	4,566	14,638
1983	8,067	192	433.9	2,326	7,046,693	7,244	1,373	4,683	14,445

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior:
1970: U.S. Bureau of Mines, Minerals Yearbook 1972
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1983: U.S. Department of Energy, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

Year	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	113,324	3,030	1,050.3	5,761	Neg.	--	8	29	8,820
1948	98,295	2,624	1,126.6	6,157	Neg.	--	8	27	8,808
1949	70,915	1,892	1,137.8	6,183	Neg.	--	7	25	8,100
1950	63,783	1,701	1,248.8	6,785	125,546	130	7	24	8,640
1951	56,903	1,525	1,377.5	7,482	192,496	199	7	23	9,229
1952	40,428	1,086	1,451.3	7,868	207,207	214	6	22	9,190
1953	30,074	809	1,511.5	8,158	230,314	238	6	20	9,225
1954	19,060	516	1,551.4	8,358	230,615	239	6	18	9,131
1955	17,429	464	1,691.4	9,109	245,246	253	6	19	9,845
1956	14,187	378	1,756.2	9,448	295,972	306	5	17	10,149
1957	10,126	270	1,832.0	9,649	299,235	310	4	15	10,244
1958	5,015	133	1,825.1	9,819	312,221	323	5	16	10,291
1959	3,861	102	1,849.4	9,923	349,348	362	5	17	10,404
1960	3,294	87	1,934.1	10,372	347,075	359	5	18	10,836
1961	770	21	1,971.9	10,575	377,607	390	6	19	11,005
1962	687	18	2,051.3	11,001	382,496	396	5	18	11,433
1963	670	18	2,146.7	11,506	423,783	438	6	19	11,981
1964	711	19	2,198.9	11,791	435,570	451	6	20	12,281
1965	655	18	2,271.9	12,179	500,524	517	5	18	12,732
1966	609	16	2,382.6	12,777	535,353	552	5	16	13,361
1967	467	13	2,497.1	13,408	575,752	594	5	17	14,032
1968	417	11	2,703.8	14,535	590,965	610	5	18	15,174
1969	313	8	2,815.8	15,125	630,962	651	5	17	15,801

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior. W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972.

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	298	8	2,923.8	15,720	772,166	745	5	16	16,489
1971	207	6	3,035.1	16,304	742,592	766	5	17	17,093
1972	163	4	3,217.5	17,290	766,156	787	5	17	18,098
1973	112	3	3,302.0	17,821	728,431	743	3	9	18,576
1974	38	2	2,931.6	17,396	668,945	685	3	9	18,091
1975	0	1	3,265.9	17,610	583,333	595	3	10	18,215
1976	0	0	3,428.3	18,499	548,577	559	3	10	19,068
1977	0	0	3,559.2	19,230	532,875	543	3	10	19,783
1978	0	0	3,702.4	20,019	530,512	539	3	9	20,567
1979	0	0	3,649.5	19,817	601,179	612	3	10	20,439
1980	0	0	3,494.3	19,009	632,813	648	3	11	19,667
1981	0	0	3,459.7	18,800	641,601	658	4	11	19,469
1982	0	0	3,396.0	18,417	596,304	613	4	11	19,040
1983	0	0	3,396.2	18,380	560,311	578	3	10	18,968

(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1983: Energy Information Administration, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

Year	COAL(1)		PETROLEUM		NATURAL GAS		HYDROPOWER(2)		NUCLEAR POWER		TOTAL ENERG INPUTS
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1947	89,531	2,084	75.5	468	373,037	386	84,981	1,326	--	--	4,264
1948	99,586	2,392	71.7	444	478,097	495	88,535	1,393	--	--	4,724
1949	83,964	2,021	92.7	577	550,121	569	96,361	1,449	--	--	4,616
1950	91,871	2,228	106.3	662	628,919	651	102,671	1,440	--	--	4,981
1951	105,768	2,537	80.1	499	763,898	791	106,554	1,454	--	--	5,281
1952	107,071	2,588	78.8	492	910,117	942	111,977	1,496	--	--	5,518
1953	115,883	2,805	92.3	577	1,034,272	1,070	111,625	1,439	--	--	5,891
1954	118,401	2,866	76.8	480	1,165,498	1,206	113,980	1,388	--	--	5,940
1955	143,759	3,482	81.9	512	1,153,280	1,194	120,304	1,407	--	--	6,595
1956	158,279	3,815	79.4	497	1,239,311	1,283	129,775	1,487	--	--	7,082
1957	160,761	3,881	81.9	512	1,338,079	1,385	136,959	1,551	10	1	7,330
1958	155,714	3,743	82.4	515	1,372,853	1,421	147,581	1,636	165	2	7,317
1959	168,427	4,050	87.2	546	1,627,097	1,684	145,002	1,591	188	2	7,873
1960	176,633	4,251	90.1	564	1,724,763	1,785	153,958	1,657	518	6	8,263
1961	182,138	4,374	92.1	577	1,825,341	1,889	157,754	1,680	1,692	17	8,537
1962	193,128	4,636	92.4	579	1,965,590	2,034	172,458	1,821	2,270	23	9,093
1963	211,193	5,065	95.7	600	2,142,930	2,218	168,573	1,767	3,212	33	9,683
1964	225,271	5,395	101.4	636	2,321,889	2,403	182,258	1,907	3,341	34	10,375
1965	244,887	5,843	118.6	744	2,318,253	2,392	196,843	2,058	3,657	38	11,075
1966	266,394	6,327	144.2	905	2,608,768	2,692	199,030	2,073	5,520	57	12,054
1967	273,970	6,457	161.3	1,013	2,746,352	2,834	224,650	2,344	7,655	80	12,728
1968	296,942	6,994	188.0	1,181	3,143,858	3,245	225,242	2,342	12,528	130	13,892
1969	310,310	7,227	259.8	1,628	3,486,391	3,594	254,540	2,659	13,928	146	15,254
1970	322,357	7,261	333.8	2,087	3,894,019	4,015	252,571	2,650	21,801	229	16,242
1971	327,926	7,330	407.1	2,543	3,992,983	4,117	269,899	2,828	37,899	404	17,222
1972	350,196	7,836	503.7	3,134	3,978,673	4,086	280,470	2,911	54,032	576	18,543
1973	388,321	8,658	587.4	3,515	3,605,333	3,748	285,975	2,975	83,292	910	19,806
1974	391,566	8,535	559.9	3,365	3,429,231	3,519	313,733	3,276	113,602	1,272	19,967

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Minerals Yearbook 1975

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

	COAL(1)		PETROLEUM		NATURAL GAS		HYDROPOWER(2)		NUCLEAR POWER		TOTAL ENERGY INPUTS(3)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1975	405,633	8,786	506.6	3,166	3,158,869	3,240	306,266	3,187	172,523	1,900	20,350
1976	448,133	9,720	556.2	3,477	3,082,111	3,152	292,297	3,032	191,093	2,111	21,573
1977	476,862	10,243	624.3	3,901	3,192,420	3,284	237,853	2,482	250,905	2,702	22,694
1978	481,015	10,236	637.8	3,987	3,188,588	3,297	300,164	3,110	284,210	3,024	23,722
1979	526,848	11,264	524.6	3,283	3,491,296	3,609	300,106	3,107	255,171	2,776	24,129
1980	569,108	12,122	421.2	2,634	3,681,818	3,807	296,918	3,085	251,128	2,739	24,501
1981	596,572	12,583	351.9	2,202	3,639,884	3,760	293,887	3,072	272,711	3,008	24,752
1982	593,491	12,582	250.6	1,568	3,225,121	3,338	339,924	3,559	282,796	3,115	24,271
1983	625,047	13,226	246.9	1,544	2,909,179	3,011	365,234	3,824	293,690	3,235	24,975

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments
(3) Total includes small amounts of geothermal power and electricity from wood and waste

Source: U.S. Department of Energy: Monthly Energy Review

BASIC PETROLEUM DATA BOOK

SECTION II. RESERVES, CRUDE OIL

Table 1. Estimated Proved World Reserves of Crude Oil

Table 2. The Reserves of United States Crude Oil

Table 3. Estimated World Proven Crude Oil Reserves -- Twenty Leading Nations

Table 4. USGS Estimates of U.S. Oil and Gas Resources

ESTIMATED PROVED WORLD RESERVES OF CRUDE OIL
ANNUALLY AS OF JANUARY 1
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World
1948	21,487,685	125,000	10,085,000	31,697,685	28,550,000	100,000	1,300,000	50,000	61,697,685	6,500,000	68,197,685
1949	23,280,444	500,000	10,880,000	34,660,444	32,621,000	122,000	1,372,000	179,000	68,954,444	4,645,000	73,599,444
1950	24,649,489	1,200,000	11,400,800	37,250,289	32,413,000	202,500	1,557,000	288,950	71,711,739	4,741,000	76,452,739
1951	25,268,398	1,202,607	11,525,000	37,996,005	41,567,000	188,000	1,765,000	445,400	81,961,405	7,965,000	89,926,405
1952	27,468,031	1,376,600	12,710,850	41,555,481	51,320,000	175,000	1,965,500	501,500	95,517,481	7,927,000	103,444,481
1953	27,960,554	1,679,509	11,883,500	41,523,563	64,825,000	163,000	2,062,000	472,700	109,046,263	9,408,000	118,454,263
1954	28,944,828	1,845,422	13,182,000	43,972,250	78,160,000	158,000	2,583,000	641,500	125,514,750	9,455,000	134,969,750
1955	29,560,746	2,207,614	14,356,000	46,124,360	97,459,000	112,000	2,708,000	1,049,200	147,452,560	10,047,000	157,499,560
1956	30,012,170	2,509,534	15,515,000	48,036,704	126,271,000	169,000	3,000,000	1,261,000	178,737,704	10,833,000	189,570,704
1957	30,434,649	2,849,370	17,474,000	50,758,019	144,470,000	285,000	6,140,000	1,305,000	202,958,019	25,000,000	227,958,019
1958	30,300,405	2,874,454	21,003,500	54,178,359	169,566,000	814,000	8,578,000	1,304,000	234,440,359	26,200,000	260,640,359
1959	30,535,917	3,165,904	21,843,000	55,544,821	173,951,000	4,118,500	9,646,500	1,437,000	244,697,821	27,705,000	272,402,821
1960	31,719,347	3,497,124	24,435,600	59,652,071	181,436,000	7,273,500	10,175,500	1,496,000	260,033,071	30,002,000	290,035,071
1961	31,613,211	3,678,542	25,061,800	60,353,553	183,160,000	8,099,500	10,906,500	1,722,000	264,241,553	33,502,000	297,743,553
1962	31,758,505	4,173,569	24,706,000	60,638,074	188,204,000	9,709,500	10,867,600	1,736,000	271,155,174	34,252,000	305,407,174
1963	31,389,223	4,480,702	24,225,500	60,095,425	193,975,000	12,345,500	11,331,100	1,791,000	279,538,025	29,976,000	309,514,025
1964	30,969,990	4,881,492	24,305,000	60,156,482	207,368,000	16,375,500	11,621,200	1,925,600	297,446,782	29,500,000	326,946,782
1965	30,990,510	6,177,546	25,525,000	62,693,056	212,180,000	19,395,600	11,613,700	2,035,600	307,917,956	30,750,000	338,667,956
1966	31,352,391	6,711,237	25,170,500	63,234,128	215,360,000	23,049,000	11,008,750	2,085,000	314,736,878	33,377,000	348,118,878
1967	31,452,127	7,791,751	27,100,300	66,344,178	235,614,600	32,355,500	11,808,472	1,924,500	348,047,250	33,838,000	381,885,250
1968	31,376,670	8,168,924	26,907,250	66,452,844	249,209,000	42,285,250	11,815,945	2,017,000	371,780,039	35,773,000	407,553,039
1969	30,707,117	8,381,613	28,782,775	67,871,505	270,760,000	44,568,800	13,720,200	1,937,000	398,857,505	55,877,000	454,734,505
1970	29,631,862	8,619,805	29,179,750	67,431,417	333,506,000	54,679,500	13,138,150	1,779,000	470,534,067	60,000,000	530,534,067
1971	39,001,335(1)	8,558,980	26,185,250	73,745,565	344,574,900	74,757,520	14,408,648	3,708,500	511,195,133	100,000,000	611,195,133
1972	38,062,957(1)	8,333,087	31,558,750	77,954,794	367,386,000	58,886,200	15,604,500	14,222,000	534,053,494	98,500,000	632,553,494
1973	36,339,408(1)	8,020,141	32,601,750	76,961,299	355,852,000	106,402,000	14,922,260	12,082,000	566,219,559	98,000,000	664,219,559
1974	35,299,839(1)	7,674,150	31,640,250	74,614,239	350,162,500	67,303,750	15,635,040	15,990,950	523,706,479	103,000,000	626,706,479
1975	34,249,956(1)	7,171,229	40,578,000	81,999,185	403,858,200	68,299,450	21,047,700	25,814,000	601,018,535	111,400,000	712,418,535
1976	32,682,127(1)	6,653,002	35,368,000	74,703,129	368,410,570	65,085,220	21,234,230	25,487,700	554,920,849	103,000,000	657,920,849
1977	30,942,166	6,247,082	29,608,950	66,808,198	367,681,220	60,570,200	19,391,140	24,538,810	538,989,568	101,100,000	640,089,568
1978	29,486,402	5,970,872	40,270,000	75,827,274	366,166,000	59,200,150	19,749,270	26,862,500	547,805,194	98,000,000	645,805,194
1979	27,803,760	6,860,000	41,246,500	75,910,260	369,996,000	57,892,125	20,007,200	23,966,000	547,771,585	94,000,000	641,771,585
1980	27,051,289	6,800,000	56,472,500	90,323,789	361,947,300	57,072,100	19,355,200	23,476,400	522,174,789	90,000,000	642,174,789
1981	29,805,000	6,400,000	69,489,837	105,694,837	362,071,000	55,148,375	19,630,500	23,085,000	565,629,712	86,300,000	651,929,712
1982	29,426,000	7,300,000	84,982,270	121,708,270	362,839,950	56,171,630	19,150,800	24,634,500	584,505,150	85,845,000	670,350,150
1983	27,858,000	7,020,000	78,482,066	113,360,066	369,285,893	57,821,690	19,756,077	22,923,680	583,147,406	85,115,000	668,262,406
1984	27,735,000	6,730,000	81,675,900	116,140,900	370,100,800	56,907,020	18,969,400	23,019,480	585,137,600	84,600,000	669,737,600

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(1) Figures include 9.6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.

Source: 1948-1980--United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
1981-1984--United States, U.S. Energy Information Administration
Canada, Canadian Petroleum Association (1952-1980)
Rest of the World, Oil and Gas Journal, "Worldwide Oil" Issues

Section II
Table 2

THE RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions and Discoveries, During Year	Production During Year (1)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1947	20,873,560	2,464,570	1,850,445	21,487,685	11.6
1948	21,487,685	3,795,207	2,002,448	23,280,444	11.6
1949	23,280,444	3,187,845	1,818,800	24,649,489	13.6
1950	24,649,489	2,562,685	1,943,776	25,268,398	13.0
1951	25,268,398	4,413,954	2,214,321	27,468,031	12.4
1952	27,468,031	2,749,288	2,256,765	27,960,554	12.4
1953	27,960,554	3,296,130	2,311,856	28,944,828	12.5
1954	28,944,828	2,873,037	2,257,119	29,560,746	13.1
1955	29,560,746	2,870,724	2,419,300	30,012,170	12.4
1956	30,012,170	2,974,336	2,551,857	30,434,649	11.9
1957	30,434,649	2,424,800	2,559,044	30,300,405	11.8
1958	30,300,405	2,608,242	2,372,730	30,535,917	12.9
1959	30,535,917	3,666,745	2,483,315	31,719,347	12.8
1960	31,719,347	2,365,328	2,471,464	31,613,211	12.8
1961	31,613,211	2,657,567	2,512,273	31,758,505	12.6
1962	31,758,505	2,180,896	2,550,178	31,389,223	12.3
1963	31,389,223	2,174,110	2,593,343	30,969,990	11.9
1964	30,969,990	2,664,767	2,644,247	30,990,510	11.7
1965	30,990,510	3,048,079	2,686,198	31,352,391	11.7
1966	31,352,391	2,963,978	2,864,242	31,452,127	11.0
1967	31,452,127	2,962,122	3,037,579	31,376,670	10.3
1968	31,376,670	2,454,635	3,124,188	30,707,117	9.8
1969	30,707,117	2,120,036	3,195,291	29,631,862	9.3
1970	29,631,862	12,688,918 (2)	3,319,445	39,001,335 (2)	11.7 (2)
1971	39,001,335 (2)	2,317,732	3,256,110	38,062,957 (2)	11.7 (2)
1972	38,062,957 (2)	1,557,848	3,281,397	36,339,408 (2)	11.1 (2)
1973	36,339,408 (2)	2,145,831	3,185,400	35,299,839 (2)	11.1 (2)
1974	35,299,839 (2)	1,993,573	3,043,456	34,249,956 (2)	11.3 (2)

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(1) Production is the amount originally estimated and used by API in prior reserves reports.
(2) Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968).

Source: American Petroleum Institute, Committee on Reserves and Productive Capacity.

Section II
Table 2a

THE RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions and Discoveries, During Year	Production During Year (1)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1975	34,249,956(2)	1,318,463	2,886,292	32,682,127(2)	11.3(2)
1976	32,682,127(2)	1,085,291	2,825,252	30,942,166(2)	11.0(2)
1977	30,942,166	1,403,780	2,859,544	29,486,402	10.3
1978	29,486,402	1,347,616	3,029,898	27,803,760	9.2
1979	27,803,760	2,205,673	2,958,144	27,051,289	9.1
1980	29,810,000	2,970,000	2,975,000	29,805,000	10.0
1981	29,805,000	2,570,000	2,949,000	29,426,000	10.0
1982	29,426,000	1,382,000	2,950,000	27,858,000	9.4
1983	27,858,000	2,897,000	3,020,000	27,735,000	9.2

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(1) Production is the amount originally estimated and used by API in prior reserves reports (through 1979).
(2) Figures include approximately 10.0 billion barrels located in Prudhoe Bay, Alaska.

Source: American Petroleum Institute, Committee on Reserves
1980-1983: U.S. Department of Energy, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

Section II
Table 3

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1975	Nation	1976	Nation	1977
1. Saudi Arabia[1]	164,500,000	1. Saudi Arabia[1]	148,600,000	1. Saudi Arabia[1]	151,400,000
2. U.S.S.R.	83,400,000	2. U.S.S.R.	80,400,000	2. U.S.S.R.	78,100,000
3. Kuwait[1]	72,800,000	3. Kuwait[1]	68,000,000	3. Kuwait[1]	67,400,000
4. Iran	66,000,000	4. Iran	64,500,000	4. Iran	63,000,000
5. Iraq	35,000,000	5. Iraq	34,300,000	5. Iraq	34,000,000
6. United States	34,249,956	6. United States	32,682,127	6. United Arab Emirates	31,200,000
7. United Arab Emirates	33,920,000	7. United Arab Emirates	32,200,000	7. United States	30,942,166
8. Libya	26,600,000	8. Libya	26,100,000	8. Libya	25,500,000
9. People's Republic of China	25,000,000	9. Nigeria	20,200,000	9. People's Republic of China	20,000,000
10. Nigeria	20,900,000	10. People's Republic of China	20,000,000	10. Nigeria	19,500,000
11. United Kingdom	15,700,000	11. Venezuela	17,700,000	11. United Kingdom	16,800,000
12. Venezuela	15,000,000	12. United Kingdom	16,000,000	12. Venezuela	15,270,000
13. Indonesia	15,000,000	13. Indonesia	14,000,000	13. Indonesia	10,500,000
14. Mexico	13,582,000	14. Mexico	9,500,000	14. Mexico	7,000,000
15. Algeria	7,700,000	15. Algeria	7,370,000	15. Algeria	6,800,000
16. Norway	7,300,000	16. Norway	7,000,000	16. Canada	6,257,082
17. Canada	7,171,229	17. Canada	6,653,002	17. Oman	5,800,000
18. Oman	6,000,000	18. Oman	5,900,000	18. Qatar	5,700,000
19. Qatar	6,000,000	19. Qatar	5,850,000	19. Norway	5,660,000
20. Congo Republic	4,874,000	20. Egypt	3,900,000	20. India	3,000,000
TOTAL FREE WORLD	601,018,535	TOTAL FREE WORLD	554,920,849	TOTAL FREE WORLD	538,989,568
TOTAL WORLD	712,418,535	TOTAL WORLD	657,920,849	TOTAL WORLD	640,089,568

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 17.3 billion barrels in 1975, 6.4 billion barrels in 1976, and 6.3 billion barrels in 1977. This production is not included in the above figures.

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

Section II
Table 3a

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1978	Nation	1979	Nation	1980
1. Saudi Arabia(1)	150,000,000	1. Saudi Arabia(1)	165,700,000	1. Saudi Arabia(1)	163,350,000
2. U.S.S.R.	75,000,000	2. U.S.S.R.	71,000,000	2. U.S.S.R.	67,000,000
3. Kuwait(1)	67,000,000	3. Kuwait(1)	66,200,000	3. Kuwait(1)	65,400,000
4. Iran	62,000,000	4. Iran	59,000,000	4. Iran	58,000,000
5. Iraq	34,500,000	5. Iraq	32,100,000	5. Mexico	31,250,000
6. United Arab Emirates	32,425,000	6. Abu Dhabi	30,000,000	6. Iraq	31,000,000
7. United States	29,486,402	7. United States	27,803,760	7. Abu Dhabi	28,000,000
8. Libya	25,000,000	8. Libya	24,300,000	8. United States	27,051,289
9. People's Republic of China	20,000,000	9. People's Republic of China	20,000,000	9. Libya	23,500,000
10. United Kingdom	19,000,000	10. Nigeria	18,200,000	10. People's Republic of China	20,000,000
11. Nigeria	18,700,000	11. Venezuela	18,000,000	11. Venezuela	17,870,000
12. Venezuela	18,200,000	12. Mexico	16,000,000	12. Nigeria	17,400,000
13. Mexico	14,000,000	13. United Kingdom	16,000,000	13. United Kingdom	15,400,000
14. Indonesia	10,000,000	14. Indonesia	10,200,000	14. Indonesia	9,600,000
15. Algeria	6,600,000	15. Canada	6,860,000	15. Algeria	8,440,000
16. Norway	6,000,000	16. Algeria	6,300,000	16. Canada	6,800,000
17. Canada	5,970,872	17. Norway	5,900,000	17. Norway	5,750,000
18. Oman	5,650,000	18. Qatar	4,000,000	18. Qatar	3,760,000
19. Qatar	5,600,000	19. Egypt	3,200,000	19. Egypt	3,100,000
20. India	3,000,000	20. India	2,900,000	20. Malaysia	2,800,000
TOTAL FREE WORLD	547,805,194	TOTAL FREE WORLD	547,771,585	TOTAL FREE WORLD	552,174,789
TOTAL WORLD	645,805,194	TOTAL WORLD	641,771,585	TOTAL WORLD	642,174,789

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6.2 billion barrels in 1978, 6.5 billion barrels in 1979, and 6.3 billion barrels in 1980. These figures are not included in the above figures.

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

Section II
Table 3b

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1981	Nation	1982	Nation	1983
1. Saudi Arabia(1)	165,000,000	1. Saudi Arabia(1)	164,600,000	1. Saudi Arabia(1)	162,400,000
2. Kuwait(1)	64,900,000	3. Kuwait(1)	64,480,000	3. Kuwait(1)	64,230,000
3. U.S.S.R.	63,000,000	2. U.S.S.R.	63,000,000	2. U.S.S.R.	63,000,000
4. Iran	57,500,000	4. Iran	57,000,000	4. Iran	55,308,000
5. Mexico	44,000,000	5. Mexico	56,990,000	5. Mexico	48,300,000
6. Iraq	30,000,000	6. Abu Dhabi	30,600,000	6. Iraq	41,000,000
7. Abu Dhabi	29,000,000	7. United States	29,426,000	7. Abu Dhabi	30,510,000
8. United States	29,805,000	8. Iraq	29,700,000	8. United States	27,858,000
9. Libya	23,000,000	9. Libya	22,600,000	9. Libya	21,500,000
10. China	20,500,000	10. Venezuela	20,300,000	10. Venezuela	21,500,000
11. Venezuela	17,950,000	11. China	19,895,000	11. China	19,485,000
12. Nigeria	16,700,000	12. Nigeria	16,500,000	12. Nigeria	16,750,000
13. United Kingdom	14,800,000	13. United Kingdom	14,800,000	13. United Kingdom	13,900,000
14. Indonesia	9,500,000	14. Indonesia	9,800,000	14. Indonesia	9,550,000
15. Algeria	8,200,000	15. Algeria	8,080,000	15. Algeria	9,440,000
16. Canada	6,400,000	16. Norway	7,620,000	16. Canada	7,020,000
17. Norway	5,500,000	17. Canada	7,300,000	17. Norway	6,800,000
18. Qatar	3,585,000	18. Qatar	3,434,000	18. Qatar	3,425,000
19. Malaysia	3,000,000	19. Egypt	2,930,000	19. Malaysia	3,325,000
20. Egypt(2)	2,900,000	20. Malaysia	2,800,000	20. Egypt	3,325,000
TOTAL FREE WORLD	565,629,712	TOTAL FREE WORLD	585,505,150	TOTAL FREE WORLD	583,147,406
TOTAL WORLD	651,929,712	TOTAL WORLD	670,350,150	TOTAL WORLD	668,262,406

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6,260 mb in 1981, 6,500 mb in 1982, and 5,840 mb in 1983. This production is not included in the above figures.

Source: United States, U.S. Energy Information Administration
Rest of World, Oil and Gas Journal

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES - TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

	Nation	1984
1.	Saudi Arabia(1)	166,000,000
2.	Kuwait(1)	63,900,000
3.	U.S.S.R.	63,000,000
4.	Iran	51,000,000
5.	Mexico	48,000,000
6.	Iraq	43,000,000
7.	Abu Dhabi	30,400,000
8.	United States	27,735,000
9.	Venezuela	24,850,000
10.	Libya	21,270,000
11.	China	19,100,000
12.	Nigeria	16,550,000
13.	United Kingdom	13,150,000
14.	Algeria	9,220,000
15.	Indonesia	9,100,000
16.	Norway	7,660,000
17.	Canada	6,730,000
18.	India	3,485,000
19.	Egypt	3,450,000
20.	Qatar	3,330,000
	TOTAL FREE WORLD	585,137,600
	TOTAL WORLD	669,737,600

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 5,695 MB in 1984.

Source: United States, U.S. Energy Information Administration
Rest of World, Oil and Gas Journal

Section II
Table 4

USGS ESTIMATES OF U.S. OIL AND GAS RESOURCES

Petroleum Region	CRUDE OIL (billion barrels)							NATURAL GAS (trillion cubic feet)					
	Identified resources			Undiscovered recoverable resources				Identified resources (3)		Undiscovered recoverable resources			
	Measured reserves	Indicated reserves	Inferred reserves	Low $^1F_{95}$	High $^1F_5$	Mean	Standard deviation	Measured reserves	Inferred reserves	Low $^1F_{95}$	High $^1F_5$	Mean	Standard deviation
Onshore													
1. Alaska	8.7	0	5.0	2.5	14.6	6.9	4.3	30.0	4.4	19.8	62.3	36.6	14.0
2. Pacific Coast	3.2	1.6	1.2	2.1	7.9	4.4	2.0	4.2	3.8	8.2	24.9	14.7	5.5
3. Colorado Plateau and Basin and Range	0.3	Negl.	1.0	6.9	25.9	14.2	8.0	11.4	4.5	53.5	142.4	90.1	29.7
4. Rocky Mountains and northern Great Plains	1.1	0.2	2.9	6.0	14.0	9.4	2.6	7.1	5.5	29.6	69.0	45.7	12.6
5. West Texas and eastern New Mexico	5.4	1.3	4.0	2.7	9.4	5.4	2.2	15.9	18.1	22.4	75.2	42.8	17.8
6. Gulf Coast	3.8	0.2	5.3	3.6	12.6	7.1	2.8	45.3	74.3	56.5	249.1	124.4	63.6
7. Mid-continent	1.5	0.2	1.4	2.3	7.7	4.4	1.8	32.0	18.8	22.9	80.8	44.5	18.4
8. Michigan Basin	0.2	Negl.	0.8	0.3	2.7	1.1	0.8	1.1	1.1	1.8	10.9	5.1	3.1
9. Eastern Interior	0.2	Negl.	0.1	0.3	1.9	0.9	0.6	Negl.	0.1	1.2	5.0	2.7	1.3
10. Appalachians	0.2	Negl.	0.1	0.1	1.5	0.6	0.5	6.2	5.9	6.4	45.8	20.1	13.2
11. Atlantic Coast	Negl.	0	0.1	0.1	0.8	0.3	0.3	Negl.	Negl.	Negl.	0.4	0.1	0.3
Entire onshore	24.7	3.6	21.8	41.7	71.0	54.6	10.5	153.3	136.5	322.5	567.9	426.8	78.5
Offshore--Shelf													
1A Alaska[2]	0.2	0	0.1	3.8	22.0	10.8	6.4	2.0	1.2	28.5	99.0	57.4	23.6
2A Pacific Coast	1.2	0	0.5	0.6	3.0	1.5	0.8	1.9	0.4	0.9	5.2	2.5	1.5
6A Gulf of Mexico	1.7	Negl.	1.0	1.3	7.9	4.0	2.1	34.4	39.5	22.0	79.2	45.3	18.5
11A Atlantic Coast	0	0	0	0	3.9	1.3	1.4	0	0	2.2	17.9	8.2	5.0
Entire shelf	3.1	Negl.	1.5	9.2	30.2	17.6	6.9	38.2	41.0	72.0	166.8	113.4	30.4
Offshore--Slope													
1A Alaska[2]	0	0	0	0	52.0	1.4	2.3	0	0	0	20.2	7.2	12.3
2A Pacific Coast	0	0	0	0.6	6.0	2.4	2.0	0	0	1.9	10.2	4.4	3.0
6A Gulf of Mexico	No data	0	No data	0.9	5.2	2.5	1.4	No data	No data	11.1	51.8	26.5	13.8
11A Atlantic Coast	0	0	0	0	10.7	4.1	3.6	0	0	5.1	34.5	15.4	9.6
Entire slope	0	0	0	4.2	19.2	10.4	4.9	0	0	28.6	87.1	53.6	21.0
Offshore--combined shelf and slope													
1A Alaska[2]	0.2	0	0.1	4.6	24.2	12.2	6.8	2.0	1.2	33.3	109.6	64.6	26.6
2A Pacific Coast	1.2	0	0.5	1.7	7.9	3.8	2.2	1.9	0.4	3.7	13.6	6.9	3.3
6A Gulf of Mexico	1.7	Negl.	1.0	3.1	11.1	6.5	2.5	34.4	39.5	41.7	114.2	71.8	23.1
11A Atlantic Coast	0	0	0	1.1	12.9	5.4	3.9	0	0	9.2	42.8	23.7	10.8
Entire slope	3.1	Negl.	1.5	16.9	43.5	28.0	8.5	38.2	41.0	117.4	230.6	167.0	37.0
Combined onshore and offshore													
Entire United States	27.8	3.6	23.4	64.3	105.1	82.6	13.4	191.5	177.5	474.6	739.3	593.8	86.8

(1) F_{95} denotes the 95th fractile; the probability of more than the amount F_{95} is 95% F_5 is defined similarly.
(2) Includes quantities considered recoverable only if technology permits their exploitation beneath Artic pack ice--a condition not yet met.
(3) Does not include gas in storage.

Source: U.S. Geological Survey, Circular 860

SECTION III. EXPLORATION AND DRILLING

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U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1947	275	1,434,351	119	662,513	3,086	12,509,723	3,480	14,606,587
1948	366	1,791,437	135	899,514	3,795	16,048,313	4,296	18,739,264
1949	364	1,813,650	142	973,124	3,943	15,372,983	4,449	18,159,757
1950	462	2,345,714	130	800,276	4,698	18,972,164	5,290	22,118,254
1951	515	2,784,458	169	1,046,805	5,505	24,116,951	6,189	27,948,214
1952	556	3,122,962	185	1,310,227	5,957	28,068,745	6,698	32,501,934
1953	581	3,288,855	193	1,244,946	6,151	29,321,262	6,925	33,855,063
1954	639	3,577,418	263	1,761,483	6,478	30,149,120	7,380	35,488,021
1955	659	3,667,073	260	1,664,789	7,186	33,654,112	8,105	38,985,974
1956	628	3,690,270	240	1,762,688	7,874	36,913,273	8,742	42,366,231
1957	590	3,403,283	282	2,099,922	7,142	33,600,397	8,014	39,103,602
1958	518	2,963,220	268	2,077,923	6,164	29,161,083	6,950	34,202,226
1959	466	2,710,157	306	2,113,934	6,259	30,635,114	7,031	35,459,205
1960	448	2,614,001	297	2,136,721	6,575	31,130,339	7,320	35,881,061

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1947	982	4,280,672	396	1,895,491	5,397	20,217,185	6,775	26,393,348
1948	1,098	4,883,179	365	2,306,271	6,550	25,561,647	8,013	32,751,097
1949	1,406	5,950,460	424	2,409,230	7,228	26,438,601	9,058	34,798,291
1950	1,583	6,861,758	431	2,356,021	8,292	30,957,394	10,306	40,175,173
1951	1,763	8,125,473	454	2,495,592	9,539	38,722,629	11,756	49,343,694
1952	1,776	8,490,701	559	3,393,813	10,090	43,730,875	12,425	55,615,389
1953	1,981	9,431,700	699	3,952,118	10,633	47,279,793	13,313	60,663,611
1954	1,985	9,409,404	726	4,399,196	10,389	45,791,944	13,100	59,600,544
1955	2,236	10,774,397	874	5,212,258	11,832	53,219,667	14,942	69,206,322
1956	2,267	11,110,534	822	5,179,111	13,118	58,047,439	16,207	74,337,084
1957	1,945	9,794,182	865	5,966,961	11,904	53,420,086	14,714	69,181,229
1958	1,745	8,712,007	822	5,472,151	10,632	47,299,753	13,199	61,483,911
1959	1,702	8,544,972	912	6,031,180	10,577	48,676,369	13,191	63,252,521
1960	1,321	6,829,122	868	5,466,439	9,515	43,535,075	11,704	55,830,636

Source: American Association of Petroleum Geologists.

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1961	429	2,304,472	316	2,373,465	6,164	30,733,007	6,909	35,410,944
1962	470	2,670,875	317	2,380,930	6,007	29,832,533	6,794	34,884,338
1963	529	2,629,952	240	1,550,207	5,801	29,371,086	6,570	33,551,245
1964	440	2,623,873	252	1,933,484	5,931	30,028,416	6,623	34,585,773
1965	397	2,279,545	234	1,849,272	5,544	27,933,474	6,175	32,062,291
1966	403	2,437,921	232	1,888,322	5,523	27,052,375	6,158	31,378,618
1967	371	2,255,638	189	1,496,083	4,700	24,255,198	5,260	28,006,919
1968	321	2,012,067	127	1,046,358	4,757	27,190,387	5,205	30,248,812
1969	344	2,237,551	191	1,669,263	5,421	31,511,973	5,956	35,418,787
1970	309	2,063,696	184	1,523,884	4,576	26,696,655	5,069	30,284,235
1971	232	1,518,573	202	1,552,887	4,028	23,364,530	4,462	26,435,990
1972	294	1,925,612	272	2,101,876	4,520	26,941,940	5,086	30,969,428
1973	285	1,785,985	416	2,957,367	4,288	25,598,586	4,989	30,341,938
1974	358	2,265,489	447	3,027,439	4,847	28,298,383	5,652	33,591,311
1975	429	2,838,904	447	3,377,029	5,228	30,843,001	6,104	37,058,934

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1961	1,157	5,899,555	813	5,249,616	9,022	38,054,853	10,992	49,204,024
1962	1,211	6,205,402	771	5,187,452	8,815	44,103,834	10,797	55,496,688
1963	1,314	6,409,095	664	4,229,802	8,686	42,846,565	10,664	53,485,462
1964	1,219	6,715,355	577	4,203,534	8,951	42,655,665	10,747	53,574,554
1965	946	5,365,758	515	3,757,004	8,005	45,319,365	9,466	54,442,127
1966	1,030	5,880,029	578	4,881,198	8,705	44,461,934	10,313	55,223,161
1967	986	5,677,675	532	3,978,526	7,360	38,182,439	8,878	47,838,640
1968	954	5,642,235	486	3,740,781	7,439	41,575,022	8,879	50,958,038
1969	1,084	6,563,032	616	4,984,622	8,001	45,918,308	9,701	57,465,962
1970	790	5,055,266	481	3,674,557	6,422	36,523,545	7,693	45,253,368
1971	651	3,712,165	437	3,328,365	5,834	33,347,439	6,922	40,387,969
1972	684	4,001,526	601	4,592,273	6,254	36,449,999	7,539	45,043,798
1973	619	3,853,751	900	6,170,512	5,947	34,752,643	7,466	44,776,906
1974	814	4,852,259	1,195	7,673,663	6,610	37,735,822	8,619	50,261,744
1975	972	5,699,225	1,171	7,998,994	7,071	40,148,084	9,214	53,846,303

Source: 1961-1966 -- American Association of Petroleum Geologists.
1967-1975 -- American Petroleum Institute.

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	439	2,902,385	547	3,824,853	4,854	28,297,390	5,840	35,024,628
1977	481	3,000,357	523	3,856,438	5,097	30,602,662	6,101	37,459,457
1978	445	2,894,938	538	3,791,833	5,522	33,756,358	6,505	40,443,129
1979	491	3,310,132	671	4,705,683	5,251	32,500,381	6,413	40,516,196
1980	654	4,201,443	686	4,960,108	5,694	35,012,527	7,034	44,174,078
1981	744	5,218,215	679	5,341,819	6,629	42,296,839	8,052	52,856,873
1982	755	5,338,055	645	5,033,648	6,512	41,880,499	7,912	52,252,202
1983	560	3,229,411	578	3,454,978	5,439	30,920,121	6,487	37,604,510

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	1,047	6,139,088	1,402	9,182,955	6,785	37,490,363	9,234	52,812,406
1977	1,209	7,053,644	1,477	9,674,848	7,275	40,926,382	9,961	57,654,874
1978	1,125	6,793,419	1,603	10,816,234	7,949	45,625,092	10,677	63,234,745
1979	1,240	7,468,543	1,784	11,722,138	7,460	43,226,507	10,484	62,467,188
1980	1,605	9,288,831	1,969	13,732,359	8,342	46,927,130	11,916	69,948,320
1981	2,219	13,267,311	2,366	15,729,426	10,583	60,090,485	15,168	89,087,222
1982	2,584	14,965,772	2,275	16,002,699	11,623	64,723,238	16,482	95,691,709
1983	2,093	10,703,744	1,889	11,579,640	9,908	49,935,972	13,890	72,219,356

Source: American Petroleum Institute.

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS(1)

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total	Footage
1947	17,017		2,909		4,141		24,067	87,667,652
1948	21,487		2,532		5,476		29,495	104,640,903
1949	20,636		2,463		5,499		28,598	103,204,709
1950	22,847		2,412		6,465		31,724	119,112,827
1951	21,690		2,576		7,114		31,380	122,987,306
1952	21,690		2,696		7,528		31,914	131,574,611
1953	23,781		3,107		7,816		34,704	138,175,389
1954	27,788		3,251		8,779		39,818	159,385,456
1955	29,331		2,739		8,910		40,980	157,063,678
1956	28,463		3,721		8,720		40,904	161,564,916
1957	26,067		3,755		9,079		38,901	152,719,310
1958	22,833		3,981		8,411		35,225	136,740,181
1959	24,098		4,117		8,688		36,903	145,978,895
1960	19,865		4,390		8,059		32,314	134,872,036

TOTAL WELLS

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total Wells	Footage	Service Strat & Core	Grand Total
1947	17,999		3,305		9,538		30,842	114,061,000	2,280	33,122
1948	22,585		2,597		12,026		37,508	137,392,000	2,270	39,778
1949	22,042		2,887		12,727		37,656	138,003,000	1,382	39,038
1950	24,430		2,843		14,757		42,030	159,288,000	1,249	43,279
1951	23,453		3,030		16,653		43,136	172,331,000	1,380	44,516
1952	23,466		3,255		17,618		44,339	187,190,000	1,482	45,821
1953	25,762		3,806		18,449		48,017	198,839,000	1,262	49,279
1954	29,773		3,974		19,168		52,915	218,986,000	1,012	53,927
1955	31,567		3,608		20,742		55,917	226,270,000	760	56,677
1956	30,737		4,543		21,797		57,077	233,902,000	1,049	58,126
1957	28,012		4,620		20,976		53,608	221,900,539	1,061	53,838
1958	24,578		4,803		19,043		48,424	198,224,092	1,615	50,039
1959	25,800		5,029		19,265		50,094	209,231,416	1,670	51,764
1960	21,186		5,258		17,574		44,018	190,702,672	2,733	46,751

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(1) The number of development wells was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(2) Footage not available prior to 1966.

Source: American Association of Petroleum Geologists and Oil and Gas Journal.

Section III
Table 2a

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS[1]

	Oil Wells	Footage[2]	Gas Wells	Footage[2]	Dry Holes	Footage[2]	Total	Footage
1961	19,944		4,851		8,084		32,879	142,912,090
1962	20,038		5,077		7,867		32,982	143,061,953
1963	18,974		4,087		7,661		30,722	130,871,538
1964	19,401		4,278		8,537		32,216	136,347,316
1965	17,815		4,209		8,020		30,044	126,984,888
1966	15,417	59,562,661	3,589	19,562,196	7,065	28,097,191	26,071	107,222,048
1967	14,343	52,955,743	3,127	17,601,654	5,886	22,960,426	23,356	93,517,823
1968	13,377	53,874,620	2,970	16,975,492	5,373	23,162,297	21,720	94,012,409
1969	13,284	55,018,970	3,467	19,177,390	5,735	25,445,537	22,486	99,641,897
1970	12,230	52,036,521	3,359	19,214,724	4,838	22,761,125	20,427	94,012,370
1971	11,207	44,839,397	3,393	19,295,191	4,329	19,716,662	18,929	83,851,250
1972	10,622	44,532,369	4,327	22,172,910	4,803	22,853,354	19,752	89,558,633
1973	9,283	40,788,198	5,485	29,429,819	4,358	21,396,529	19,126	91,614,546
1974	11,970	45,356,725	6,045	31,312,819	5,064	23,620,119	23,079	100,289,663
1975	15,436	58,809,761	6,409	33,928,337	6,176	27,849,831	28,021	120,587,929

TOTAL WELLS

	Oil Wells	Footage[2]	Gas Wells	Footage[2]	Dry Holes	Footage[2]	Total Wells	Footage	Service Strat & Core	Grand Total
1961	21,101		5,664		17,106		43,871	192,116,114	3,091	46,962
1962	21,249		5,848		16,682		43,779	198,558,641	2,400	46,179
1963	20,288		4,751		16,347		41,386	184,357,000	2,267	43,653
1964	20,620		4,855		17,488		42,963	189,921,870	2,273	45,236
1965	18,761		4,724		16,025		39,501	181,427,015	1,922	41,423
1966	16,447	65,442,690	4,167	24,443,394	15,770	72,559,125	36,384	162,445,209	2,152	38,536
1967	15,329	58,633,418	3,659	21,580,180	13,246	61,142,865	32,234	141,356,463	1,584	33,818
1968	14,331	59,516,855	3,456	20,716,273	12,812	64,737,319	30,599	144,970,447	2,315	32,914
1969	14,368	61,582,002	4,083	24,162,012	13,736	71,363,845	32,187	157,107,859	1,866	34,053
1970	13,020	57,091,787	3,840	22,889,281	11,260	59,284,670	28,120	139,265,738	1,347	29,467
1971	11,858	45,551,562	3,830	22,623,556	10,163	53,064,101	25,851	124,239,219	1,449	27,300
1972	11,306	48,533,895	4,928	26,765,183	11,057	59,303,353	27,291	134,602,431	1,464	28,755
1973	9,902	44,641,949	6,385	35,600,331	10,305	56,149,172	26,592	136,391,452	1,010	27,602
1974	12,784	50,208,984	7,240	38,986,482	11,674	61,355,941	31,698	150,551,407	1,195	32,893
1975	16,408	64,508,986	7,580	41,927,331	13,247	67,997,915	37,235	174,434,232	1,862	39,097

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(1) The number of development wells for 1961-1965 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(2) Footage not available prior to 1966.

Source: 1961-1965 -- American Association of Petroleum Geologists and Oil and Gas Journal.
1966-1975 -- American Petroleum Institute.

Section III
Table 2b

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	16,012	60,563,685	7,683	38,323,628	6,836	30,080,296	30,531	128,967,609
1977	17,703	68,254,038	9,901	49,863,196	7,417	35,075,801	35,021	153,193,035
1978	16,650	65,740,465	11,461	59,379,429	8,269	38,755,228	36,380	163,875,122
1979	18,143	71,167,437	12,897	65,984,223	8,292	39,039,853	39,332	176,191,513
1980	25,421	100,249,736	13,761	71,310,386	9,747	42,952,537	48,929	214,512,659
1981	35,452	137,401,750	15,528	81,149,957	12,390	53,767,591	63,370	272,319,298
1982	37,717	144,418,151	16,677	91,206,023	14,919	64,677,088	69,313	300,301,262
1983	35,114	125,203,154	13,739	71,646,416	13,586	56,690,865	62,439	253,540,435

TOTAL WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total Wells	Footage	Service Strat & Core	Grand Total
1976	17,059	66,702,773	9,085	47,506,583	13,621	67,570,659	39,765	181,780,015	1,690	41,455
1977	18,912	75,307,682	11,378	59,538,044	14,692	76,002,183	44,982	210,847,909	1,497	46,479
1978	17,775	75,533,884	13,064	70,195,663	16,218	84,380,320	47,057	227,109,867	1,465	48,513
1979	19,383	78,635,980	14,681	77,756,361	15,752	82,266,360	49,816	238,658,701	1,447	51,263
1980	27,026	109,538,567	15,730	85,042,745	18,089	89,879,667	60,845	284,460,979	1,617	62,462
1981	37,671	150,669,061	17,894	96,879,383	22,973	113,858,076	78,538	361,406,520	1,999	80,537
1982	40,301	159,383,923	18,952	107,208,722	26,542	129,400,326	85,795	395,992,971	2,306	88,101
1983	37,207	135,906,898	15,628	83,226,056	23,494	106,626,837	76,329	325,759,791	2,213	78,542

Source: American Petroleum Institute.

Section III
Table 3

U. S. Wells Drilled by Depth Interval

Year	Depth Interval (Feet)					Total Wells Drilled
	Under 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-over	
1959	34,867	11,719	2,757	220	(1)	49,563
1960	30,575	10,485	2,835	238	(1)	44,133
1961	30,289	10,658	2,789	252	(1)	43,988
1962	29,496	11,103	3,062	283	(1)	43,944
1963	28,524	10,342	2,723	264	(1)	41,853
1964	29,913	10,649	2,604	320	(1)	43,486
1965	25,697	11,081	2,491	327	(1)	39,596
1966	22,178	9,703	2,251	355	34	34,521
1967	20,359	8,668	2,130	343	38	31,538
1968	17,999	8,958	2,264	308	47	29,576
1969	17,067	9,690	2,378	300	46	29,481
1970	15,930	8,694	2,173	325	55	27,177
1971	14,776	7,888	1,998	324	54	25,040
1972	15,352	8,349	2,246	445	51	26,443
1973	14,884	8,755	2,166	379	60	26,244
1974	19,369	9,452	2,253	341	66	31,481
1975	22,704	11,254	2,588	365	49	36,960
1976	24,260	11,485	2,821	324	51	38,941
1977	26,800	13,339	3,215	422	50	43,826
1978	28,545	13,792	3,691	578	49	46,655
1979	29,831	14,114	3,936	591	51	48,523
1980	38,889	16,934	4,310	647	65	60,845
1981	51,078	21,533	5,030	807	90	78,538
1982	56,201	22,283	6,095	1,097	124	85,800
1983	52,610	18,391	4,373	851	104	76,329

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(1) Included in 15,000-19,999 foot interval

Source: 1959-1979, API, Joint Association Survey
1980-present, API, Quarterly Review of Drilling Statistics

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(CREW MONTHS)

	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total
1951	(1)	(1)	6,537	(1)	(1)	802	(1)	(1)	7,339
1952	(1)	(1)	7,958	(1)	(1)	965	(1)	(1)	8,923
1953	(1)	(1)	7,666	(1)	(1)	1,006	(1)	(1)	8,672
1954	(1)	(1)	6,863	(1)	(1)	1,106	(1)	(1)	7,969
1955	2,791	4,299	7,090	419	655	1,150(2)	3,210	4,954	8,240(2)
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174
1964	1,360	2,742	4,102	76	228	309(4)	1,436	2,970	4,411(4)
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471
1966	1,496	2,176	3,672	57	88	163(5)	1,553	2,264	3,835(5)
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496
1968	1,138	2,130	3,268	15	104	122(6)	1,153	2,234	3,390(6)
1969	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472
1970	781	1,559	2,340	12	169	181	793	1,728	2,521
1971	656	1,999	2,655	10	97	107	666	2,096	2,762
1972	622	2,394	3,016	6	118	124	628	2,512	3,140
1973	607	2,392	2,999	18	56	74	625	2,448	3,073
1974	540	3,122	3,662	(1)	(1)	230	(1)	(1)	3,892

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(1) Company-contractor data are not available.
(2) Includes 76 magnetometer crew months not allocated to either company or contractor.
(3) Percentages do not equal 100 percent due to unallocated crew months included in total.
(4) Includes 5 other crew months not allocated to either company or contractor.
(5) Includes 18 magnetometer crew months not allocated to either company or contractor.
(6) Includes 3 magnetometer crew months not allocated to either company or contractor.

Source: Society of Exploration Geophysicists, Annual Reports.

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(CREW MONTHS)

	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total
1975	543	2,860	3,416(2)	(1)	(1)	271	(1)	(1)	3,687
1976	484	2,646	3,140(2)	(1)	(1)	245	(1)	(1)	3,385
1977	499	2,564	3,063(2)	(1)	(1)	120	(1)	(1)	3,183
1978	478	3,670	4,148(2)	(1)	(1)	196	(1)	(1)	4,344
1979	829	3,571	4,400(2)	(1)	(1)	199	(1)	(1)	4,599
1980	1,292	3,669	4,962	(1)	(1)	311	(1)	(1)	5,273
1981	1,038	4,839	5,877	(1)	(1)	382	(1)	(1)	6,259
1982	653	5,023	5,676	(1)	(1)	492	(1)	(1)	6,168
1983	588	4,356	4,944	(1)	(1)	334	(1)	(1)	5,278

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(1) Company-contractor data are not available.
(2) Total includes government and university activity unallocated to company-contractor totals.

Source: Society of Exploration Geophysicists, Annual Reports.

Section III
Table 5

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew Months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total Free World
1954	7,969	1,652	1,210	10,831	(1)	(1)	(1)	(1)	12,424
1955	8,240	1,599	1,148	10,987	(1)	(1)	(1)	(1)	13,430
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	13,627
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	13,655
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	12,590
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	11,481
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	10,526
1961	5,024	664	995	6,683	1,314	1,472	213	521	10,203
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	9,199
1963	4,174	745	1,153	6,072	1,094	978	233	968	9,345
1964	4,411	673	1,133	6,217	1,035	766	283	909	9,210
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	9,689
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	9,040
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	9,055
1968	3,390	970	1,012	5,372	711	679	296	708	7,766
1969	3,472	960	898	5,330	676	864	460	935	8,265
1970	2,521	806	1,052	4,379	725	802	286	1,009	7,201
1971	2,762	334	1,105	4,201	738	915	254	1,578	7,686
1972	3,140	503	1,146	4,789	692	938	239	957	7,615
1973	3,073	585	1,236	4,894	627	798	294	950	7,563
1974	3,892	487	1,572	5,951	702	835	389	1,008	8,897(2)
1975	3,687	597(3)	790(3)	5,074	679(3)	676(3)	306(3)	440(3)	7,185(2)
1976	3,385	421(3)	559(3)	4,365	592(3)	674(3)	351(3)	338(3)	6,353(2)
1977	3,183	766	480(4)	4,429	646	806	309	254	6,497(2)
1978	4,148	782	980	5,910	535	613	330	280	7,668(2)
1979	4,400	761	485	5,646	647	674	345	372	7,746(2)

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(1) Area total not available

(2) Includes crew months allocated to international waters and other areas not specifically identified, 1974-12, 1975-10, 1976-33, 1977-53, 1978-100, 1979-62.

(3) Seismic activity only

(4) Only partial data for Mexico included

Source: Society of Exploration Geophysicists, Annual Reports

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total Free World
1980	4,962	695	645	6,302	569	688	346	520	8,565(2)
1981	5,877	584	1,261	7,722	733	973	452	436	10,706(2)
1982	5,676	527	808	7,011	798	755	480	752	9,821(2)
1983	4,944	658	703	6,305	744	660	359	700	8,789(2)

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(2) Includes crew months allocated to international waters and other areas not specifically identified.

Source: Society of Exploration Geophysicists, Annual Reports

Section III
Table 6

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
1947	3	7	11	52	129	48	250	73	3,325	2.20
1948	2	2	9	59	241	33	346	72	4,087	1.76
1949	9	4	9	65	172	78	337	87	4,238	2.05
1950	3	10	15	69	283	56	436	97	5,149	1.88
1951	1	1	13	71	345	61	492	86	6,044	1.42
1952	2	2	11	70	361	90	536	85	6,440	1.32
1953	1	6	17	88	283	134	529	112	6,634	1.69
1954	2	3	12	82	308	179	586	99	7,033	1.41
1955	2	5	13	95	329	178	622	115	7,743	1.49
1956	0	2	2	92	333	124	553	96	8,436	1.14
1957	1	1	7	63	339	186	597	72	7,556	0.95
1958	3	2	16	82	229	157	489	103	6,618	1.56
1959	0	4	3	52	255	110	424	59	7,031	0.84
1960	1	3	5	35	283	143	470	44	7,320	0.60
1961	0	1	4	47	246	68	366	52	6,909	0.75
1962	0	1	3	44	264	78	390	48	6,794	0.71
1963	2	1	7	41	341	100	492	51	6,570	0.78
1964	0	3	9	48	248	109	417	60	6,623	0.91
1965	2	3	5	35	268	63	376	45	6,175	0.73
1966	3	1	3	40	336	6	389	47	6,158	0.76
1967	1	4	2	39	278	24	348	46	5,271	0.87
1968	3	5	1	38	210	63	320	47	5,205	0.90
1969	2	3	2	41	245	28	321	48	5,956	0.81
TOTAL	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields	Over 50 million barrels
B Fields	25-50 million barrels
C Fields	10-25 million barrels
D Fields	1-10 million barrels
E Fields	Less than 1 million barrels
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[(1)] Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[(2)]	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B (SIGNIFICANT)	C (SIGNIFICANT)	D	E	F	Total[(1)]			
Cumulative total 1947-1969	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15
1970	11	1	5	43	149	18	227	60	5,069	1.18
1971	2	0	2	23	149	8	184	27	4,463	0.60
1972	1	1	1	49	187	3	242	52	5,086	1.02
1973	0	2	3	23	198	0	226	28	4,989	0.56
1974	0	0	0	36	254	0	290	36	5,652	0.64
1975	0	2	6	43	320	0	371	51	6,104	0.84
1976	1	1	4	39	383	0	428	45	5,840	0.77
1977	0	2	1	38	396	0	437	41	6,101	0.67
TOTAL	58	83	201	1,642	8,362	2,145	12,491	1,984	186,619	1.06

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields	Over 50 million barrels
B Fields	25-50 million barrels
C Fields	10-25 million barrels
D Fields	1-10 million barrels
E Fields	Less than 1 million barrels
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B (SIGNIFICANT)	C (SIGNIFICANT)	D	E	F	Total[1]			
1947	5	5	4	30	35	19	98	44	3,325	1.32
1948	3	3	7	33	35	19	100	46	4,087	1.13
1949	8	7	8	34	43	12	112	57	4,238	1.34
1950	4	4	8	28	44	19	107	44	5,149	0.85
1951	10	4	10	41	57	16	138	65	6,044	1.08
1952	10	7	7	44	65	15	148	68	6,440	1.06
1953	3	3	6	40	89	18	159	52	6,634	0.78
1954	4	1	12	51	104	39	211	68	7,033	0.97
1955	2	3	11	33	107	43	199	49	7,743	0.63
1956	2	4	5	52	92	26	181	63	8,436	0.75
1957	9	5	15	70	105	30	234	99	7,556	1.31
1958	3	6	9	55	143	25	241	73	6,618	1.10
1959	4	1	6	51	135	28	225	62	7,031	0.88
1960	6	2	9	63	135	22	237	80	7,320	1.09
1961	4	3	4	35	156	40	242	46	6,909	0.67
1962	3	4	11	61	161	52	292	79	6,794	1.16
1963	4	1	7	38	124	41	215	50	6,570	0.76
1964	4	1	11	37	136	37	226	53	6,623	0.80
1965	1	3	10	38	142	30	224	52	6,175	0.84
1966	1	3	7	36	142	12	201	47	6,158	0.76
1967	4	5	6	26	111	12	164	41	5,271	0.78
1968	1	5	7	27	83	14	137	40	5,205	0.77
1969	3	2	4	35	116	14	174	44	5,956	0.74
TOTAL	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92

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(1) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields......................Over 300 billion cubic feet
B Fields......................150-300 billion cubic feet
C Fields......................60-150 billion cubic feet
D Fields..........................6-60 billion cubic feet
E Fields.............................6 billion cubic feet
F Fields......................Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7a

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
Cumulative total 1947-1969	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92
1970	5	4	3	25	79	14	130	37	5,069	0.73
1971	2	3	3	38	102	12	160	46	4,463	1.03
1972	3	2	6	47	187	0	245	58	5,086	1.14
1973	2	6	10	57	284	0	359	75	4,989	1.50
1974	0	2	6	51	329	0	388	59	5,652	1.04
1975	3	0	1	64	336	0	404	68	6,104	1.11
1976	2	1	7	53	443	0	506	63	5,840	1.08
1977	3	0	3	75	381	0	462	81	6,101	1.33
TOTAL	118	100	223	1,368	4,501	609	6,919	1,809	186,619	0.97

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields.......................Over 300 billion cubic feet
B Fields.......................150-300 billion cubic feet
C Fields.......................60-150 billion cubic feet
D Fields.......................6-60 billion cubic feet
E Fields.......................6 billion cubic feet
F Fields.......................Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL AND GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Oil & Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B (SIGNIFICANT)	C (SIGNIFICANT)	D	E	F	Total[1]			
1947	8	12	15	82	164	67	348	117	3,325	3.52
1948	5	5	16	92	276	52	446	118	4,087	2.89
1949	17	11	17	99	215	90	449	144	4,238	3.40
1950	7	14	23	97	327	75	543	141	5,149	2.74
1951	11	5	23	112	402	77	630	151	6,044	2.50
1952	12	9	18	114	426	105	684	153	6,440	2.38
1953	4	9	23	128	372	152	688	164	6,634	2.47
1954	6	4	24	133	412	218	797	167	7,033	2.37
1955	4	8	24	128	436	221	821	164	7,743	2.12
1956	2	6	7	144	425	150	734	159	8,436	1.88
1957	10	6	22	133	444	216	831	171	7,556	2.26
1958	6	8	25	137	372	182	730	176	6,618	2.66
1959	4	5	9	103	390	138	649	121	7,031	1.72
1960	7	5	14	98	418	165	707	124	7,320	1.69
1961	4	4	8	82	402	108	608	98	6,909	1.42
1962	3	5	14	105	425	130	682	127	6,794	1.87
1963	6	2	14	79	465	141	707	101	6,570	1.54
1964	4	4	20	85	384	146	643	113	6,623	1.71
1965	3	6	15	73	410	93	600	97	6,175	1.57
1966	4	4	10	76	478	18	590	94	6,158	1.53
1967	5	9	8	65	389	36	512	87	5,271	1.65
1968	4	10	8	65	293	77	457	87	5,205	1.67
1969	5	5	6	76	361	42	495	92	5,956	1.54
TOTAL	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07

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(1) Differs from year-of-discovery total because of consolidations.

A Fields	Over 50 million barrels or over 300 billion cubic feet
B Fields	25-50 million barrels or 150-300 billion cubic feet
C Fields	10-25 million barrels or 60-150 billion cubic feet
D Fields	1-10 million barrels or 6-60 billion cubic feet
E Fields	Less than 1 million barrels or less than 6 billion cubic feet
F Fields	Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8a

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL AND GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Oil & Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
Cumulative total 1947-1969	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07
1970	16	5	8	68	228	32	357	97	5,069	1.91
1971	4	3	5	61	251	20	344	73	4,463	1.64
1972	4	3	7	96	374	3	487	110	5,086	2.16
1973	2	8	13	80	482	0	585	103	4,989	2.06
1974	0	2	6	87	583	0	678	95	5,652	1.68
1975	3	2	7	107	656	0	775	119	6,104	1.95
1976	3	2	11	92	826	0	934	108	5,840	1.85
1977	3	2	4	113	777	0	899	122	6,101	2.00
TOTAL	176	183	424	3,010	12,863	2,754	19,410	3,793	186,619	2.03

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(1) Differs from year-of-discovery total because of consolidations.

A Fields.....................Over 50 million barrels or over 300 billion cubic feet
B Fields.........................25-50 million barrels or 150-300 billion cubic feet
C Fields..........................10-25 million barrels or 60-150 billion cubic feet
D Fields.............................1-10 million barrels or 6-60 billion cubic feet
E Fields.............Less than 1 million barrels or less than 6 billion cubic feet
F Fields...Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 9

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,136	94,331,708	1,232,591,000	3,753	49,037	13.07
1960	20,933	81,168,838	914,306,819	3,878	43,678	11.26
1961	20,868	79,736,609	971,144,061	3,821	46,537	12.18
1962	20,060	83,168,468	1,041,452,536	4,146	51,917	12.52
1963	20,306	77,410,438	940,225,250	3,812	46,303	12.15
1964	20,535	76,376,645	898,606,894	3,719	43,760	11.77
1965	18,370	74,627,569	873,769,045	4,062	47,565	11.71
1966	15,312	60,104,252	745,319,549	3,925	48,676	12.40
1967	14,196	53,675,969	692,118,920	3,781	48,755	12.89
1968	13,010	51,828,631	699,182,337	3,984	53,742	13.49
1969	12,330	52,726,293	790,280,178	4,276	64,094	14.99
1970	12,014	51,734,000	806,429,000	4,306	67,124	15.59
1971	11,096	45,672,234	731,152,743	4,116	65,893	16.01
1972	10,421	45,126,022	792,435,249	4,330	76,042	17.56
1973	9,407	41,980,947	825,029,716	4,462	87,704	19.65
1974	12,820	49,662,328	1,270,731,107	3,874	99,121	25.59

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	4,974	26,688,743	460,307,000	5,366	92,543	17.25
1960	5,175	28,035,381	487,477,504	5,417	94,199	17.39
1961	5,588	29,454,151	489,799,166	5,271	87,652	16.63
1962	5,743	30,171,311	511,755,682	5,254	89,109	16.96
1963	4,689	24,626,510	392,325,056	5,252	83,669	15.93
1964	4,749	25,991,892	447,248,084	5,473	94,177	17.21
1965	4,654	25,113,447	418,669,590	5,396	89,959	16.67
1966	3,914	23,217,268	446,177,620	5,932	113,995	19.22
1967	3,390	19,821,779	401,857,713	5,847	118,542	20.27
1968	3,145	18,536,140	387,216,275	5,894	123,121	20.89
1969	3,705	21,237,340	439,917,416	5,732	118,736	20.71
1970	3,651	21,044,000	478,705,000	5,764	131,116	22.75
1971	3,494	20,086,735	471,309,152	5,749	134,891	23.46
1972	4,856	26,424,009	626,559,655	5,442	129,028	23.71
1973	6,243	34,368,694	843,960,359	5,505	135,185	24.56
1974	6,540	35,552,242	1,114,933,600	5,436	170,479	31.36

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	18,977	79,735,011	775,839,000	4,202	40,883	9.73
1960	17,427	71,568,350	716,918,499	4,107	41,138	10.02
1961	16,926	71,393,988	706,003,668	4,218	41,711	9.89
1962	16,381	72,462,636	751,889,544	4,424	45,900	10.38
1963	16,072	71,272,882	679,103,111	4,435	42,254	9.53
1964	17,207	76,197,567	723,760,548	4,428	42,062	9.50
1965	15,535	71,075,468	681,175,250	4,575	43,848	9.58
1966	14,168	62,730,401	638,085,605	4,428	45,037	10.17
1967	12,587	57,590,338	591,049,820	4,575	46,957	10.26
1968	12,099	60,145,366	665,359,161	4,971	54,993	11.06
1969	12,255	63,091,716	708,336,269	5,148	57,800	11.23
1970	10,454	53,874,000	695,037,000	5,153	66,485	12.90
1971	9,566	49,877,591	646,412,548	5,214	67,574	12.96
1972	10,173	53,984,394	762,721,534	5,307	74,975	14.13
1973	9,713	51,957,041	827,228,251	5,349	85,167	15.92
1974	11,291	58,327,468	1,301,354,034	5,166	115,256	22.31

ONSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	49,197	198,056,000	2,447,219,287	4,026	49,743	12.36
1955(1)	55,517	221,197,185	2,439,924,000	3,984	43,949	11.03
1956(1)	56,646	227,580,288	2,669,624,000	4,018	47,128	11.73
1959	49,087	200,755,462	2,468,737,000	4,090	50,293	12.30
1960	43,595	180,772,569	2,216,899,965	4,147	50,852	12.26
1961	43,382	180,584,748	2,166,926,895	4,163	49,950	12.00
1962	43,184	185,802,415	2,305,097,762	4,303	53,379	12.41
1963	41,067	173,309,830	2,011,653,417	4,220	48,985	11.61
1964	42,491	178,566,194	2,069,615,526	4,202	48,707	11.59
1965	38,559	167,816,484	1,973,613,885	4,352	51,184	11.76
1966	33,394	146,051,921	1,829,582,774	4,374	54,788	12.53
1967	30,173	131,088,086	1,685,026,453	4,345	55,846	12.85
1968	28,254	130,510,137	1,741,757,746	4,619	61,646	13.35
1969	28,290	137,055,349	1,944,533,863	4,845	68,736	14.19
1970	26,119	126,652,000	1,980,171,000	4,849	75,813	15.63
1971	24,156	115,636,560	1,848,874,443	4,787	76,539	15.99
1972	25,450	125,534,425	2,181,716,438	4,933	85,726	17.38
1973	25,356	128,306,687	2,496,218,326	5,060	98,447	19.46
1974	30,651	143,542,038	3,687,018,741	4,683	120,290	25.69

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(1) Data pertaining to well classification not available.

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	15,993	63,641,299	2,003,955,253	3,979	125,302	31.49
1976	16,603	65,636,193	2,227,303,087	3,953	134,151	33.93
1977	17,789	72,089,963	2,654,029,888	4,052	149,195	36.82
1978	17,492	71,596,025	3,157,053,722	4,093	180,485	44.10
1979	18,894	77,020,983	3,983,757,002	4,076	210,847	51.73
1980	28,236	114,228,142	6,924,130,196	4,045	245,223	60.62
1981	38,310	158,514,798	11,948,475,460	4,138	311,889	75.38
1982	35,379	140,035,328	10,895,210,432	3,958	307,957	77.81

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	7,383	40,613,623	1,667,555,125	5,501	225,864	41.06
1976	8,631	45,714,695	2,011,603,612	5,297	233,067	44.00
1977	11,086	58,790,972	2,924,519,836	5,303	263,803	49.74
1978	12,887	68,610,863	3,996,244,518	5,324	310,098	58.25
1979	13,626	72,733,130	5,010,426,429	5,337	367,710	68.90
1980	14,781	81,400,828	6,720,984,786	5,507	454,704	82.57
1981	17,018	95,089,567	10,125,963,881	5,588	595,015	106.49
1982	16,610	96,211,915	12,572,614,054	5,792	756,930	130.69

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	12,556	63,604,041	1,725,506,826	5,066	137,425	27.13
1976	12,679	63,250,013	1,747,814,384	4,989	137,851	27.63
1977	13,734	70,293,622	2,321,990,226	5,118	169,069	33.03
1978	15,079	78,655,296	3,330,509,120	5,216	220,870	42.34
1979	14,743	75,365,528	3,877,721,739	5,111	263,021	51.46
1980	17,722	87,898,711	5,308,941,862	4,959	299,567	60.41
1981	24,012	120,773,262	9,040,265,092	5,030	376,489	74.85
1982	23,199	111,833,874	9,806,473,794	4,821	422,711	87.68

ONSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	35,932	167,858,963	5,397,017,204	4,672	150,201	32.15
1976	37,913	174,600,901	5,986,721,083	4,605	157,907	34.29
1977	42,609	201,174,557	7,900,539,950	4,721	185,420	39.29
1978	45,458	218,862,184	10,483,807,360	4,814	230,626	47.91
1979	47,263	225,119,641	12,871,899,170	4,763	272,346	57.18
1980	60,739	283,527,681	18,954,056,844	4,667	312,057	66.86
1981	79,340	374,377,627	31,114,704,433	4,719	392,169	83.11
1982	75,188	348,081,117	33,274,298,280	4,629	442,548	95.60

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 10

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	227	2,599,612	88,835,000	9,385	320,704	34.17
1960	301	2,865,023	98,197,143	9,518	326,236	34.27
1961	336	3,187,520	115,617,334	9,487	344,099	36.27
1962	342	3,326,026	119,019,601	9,725	348,011	35.78
1963	372	3,689,368	130,912,957	9,918	351,917	35.48
1964	477	4,612,212	164,388,006	9,669	344,629	35.64
1965	487	4,919,944	193,026,274	10,103	396,358	39.23
1966	544	5,449,362	240,434,042	10,017	441,974	44.12
1967	739	6,258,340	303,250,028	8,469	410,352	48.46
1968	757	6,627,424	390,146,022	8,755	515,384	58.87
1969	585	5,208,156	320,848,306	8,903	548,459	61.61
1970	533	4,683,000	281,628,000	8,786	528,382	60.14
1971	309	2,912,973	163,352,339	9,427	528,648	56.08
1972	332	3,273,524	213,035,847	9,860	641,674	65.08
1973	296	2,686,193	181,945,598	9,075	614,681	67.73
1974	253	2,102,914	169,594,672	8,312	670,335	80.65

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	75	896,709	48,588,000	11,956	647,840	54.18
1960	87	1,042,922	52,700,835	11,988	605,757	50.53
1961	86	990,249	47,654,757	11,515	554,125	48.12
1962	115	1,260,484	57,016,076	10,961	495,792	45.23
1963	90	1,051,158	49,100,635	11,680	545,563	46.71
1964	125	1,501,956	63,316,005	12.016	506,528	42.16
1965	118	1,379,717	67,430,379	11,693	571,444	48.87
1966	146	1,756,848	97,073,943	12,033	664,890	55.25
1967	168	1,939,838	99,803,218	11,547	594,067	51.45
1968	179	1,995,683	106,519,840	11,149	595,083	53.38
1969	222	2,457,839	166,087,991	11,071	748,144	67.57
1970	193	2,049,000	138,878,000	10,617	719,575	67.78
1971	185	2,035,105	141,544,606	11,001	765,106	69.55
1972	230	2,460,625	175,825,867	10,698	764,460	71.46
1973	193	1,968,168	153,971,193	10,198	797,778	78.23
1974	155	1,578,821	151,606,723	10,186	978,108	96.02

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	124	1,260,615	44,936,000	10,166	362,387	35.65
1960	150	1,700,433	56,620,365	11,336	337,469	33.30
1961	184	1,906,624	67,963,659	10,362	369,368	35.65
1962	303	3,168,241	95,541,920	10,456	315,320	30.16
1963	324	3,429,706	111,196,941	10,586	343,200	32.42
1964	393	4,065,165	130,047,649	10,344	330,910	31.99
1965	432	4,588,937	167,365,988	10,623	387,421	36.47
1966	437	4,664,125	193,649,552	10,673	443,134	41.52
1967	458	4,719,526	211,098,687	10,305	460,914	44.73
1968	386	3,995,520	170,936,791	10,351	442,841	42.78
1969	384	3,983,883	179,201,104	10,375	466,670	44.98
1970	332	3,506,000	178,005,000	10,560	536,160	50.77
1971	390	4,059,347	217,720,125	10,409	558,257	53.63
1972	431	4,266,964	243,587,637	9,900	565,169	57.09
1973	399	3,699,708	242,397,135	9,272	607,512	65.52
1974	422	3,720,521	358,768,666	8,816	850,163	96.43

OFFSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	82(2)	783,000	24,499,000	9,549	298,768	31.29
1955(1)	414(3)	3,959,846	160,219,000	9,565	387,002	40.46
1956(1)	479(4)	4,593,420	198,786,000	9,590	415,002	43.28
1959	476	4,756,936	182,359,000	9,994	383,107	38.34
1960	538	5,608,378	207,518,343	10,424	385,722	37.00
1961	606	6,084,393	231,235,750	10,040	381,577	38.00
1962	760	7,754,751	271,577,597	10,204	357,339	35.02
1963	786	8,170,232	291,210,533	10,395	370,497	35.64
1964	995	10,179,333	357,751,660	10,230	359,549	35.14
1965	1,037	10,888,598	427,822,641	10,500	412,558	39.29
1966	1,127	11,870,335	531,157,537	10,533	471,302	44.75
1967	1,365	12,917,704	614,151,933	9,464	449,928	47.54
1968	1,322	12,618,627	667,602,653	9,545	504,994	52.91
1969	1,191	11,649,878	666,137,401	9,782	559,309	57.18
1970	1,058	10,238,000	598,511,000	9,677	565,700	58.46
1971	884	9,007,425	522,617,070	10,189	591,196	58.02
1972	993	10,001,113	632,449,351	10,072	636,908	63.24
1973	888	8,354,069	578,313,926	9,408	651,254	69.23
1974	830	7,402,256	679,970,061	8,918	819,241	91.86

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(1) Data pertaining to well classification not available.
(2) Louisiana only
(3) Includes Louisiana and Texas
(4) Includes Louisiana, Texas and California

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 10a

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

OIL WELLS							GAS WELLS						
Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	283	2,426,503	252,551,719	8,574	892,409	104.08	1975	271	2,762,301	337,855,300	10,193	1,246,699	122.31
1976	275	2,620,987	322,349,526	9,531	1,172,180	122.99	1976	273	2,651,086	395,814,965	9,711	1,449,872	149.30
1977	288	2,570,380	418,724,648	8,924	1,453,905	162.90	1977	393	3,722,271	674,578,971	9,471	1,716,486	181.23
1978	298	2,814,739	542,971,356	9,445	1,822,051	192.91	1978	419	4,208,599	982,577,287	10,044	2,345,053	233.48
1979	349	3,240,020	694,803,364	9,283	1,990,841	214.46	1979	453	4,606,734	1,227,705,600	10,169	2,710,166	266.51
1980	317	2,838,025	844,306,724	8,952	2,663,428	297.52	1980	444	4,418,820	1,445,737,826	9,952	3,256,166	327.19
1981	415	3,467,268	1,074,328,793	8,355	2,588,744	309.85	1981	515	5,167,952	2,122,169,769	10,035	4,120,718	410.64
1982	486	4,269,174	1,563,370,022	8,784	3,216,811	366.21	1982	442	4,591,603	2,165,054,206	10,388	4,898,313	471.54
DRY HOLES							ONSHORE WELLS DRILLED						
1975	474	4,594,372	583,789,700	9,693	1,231,624	127.06	1975	1,028	9,783,176	1,174,196,719	9,517	1,142,215	120.02
1976	480	4,545,171	756,794,687	9,469	1,576,656	166.51	1976	1,028	9,817,244	1,474,959,178	9,550	1,434,785	150.24
1977	536	5,227,200	962,609,475	9,752	1,795,913	184.15	1977	1,217	11,519,851	2,055,913,094	9.466	1,689,329	178.47
1978	480	4,733,406	1,051,734,031	9,861	2,191,112	222.20	1978	1,197	11,756,744	2,577,282,674	9,821	2,153,118	219.24
1979	458	4,545,747	1,284,522,234	9,925	2,804,633	282.58	1979	1,260	12,392,501	3,207,031,198	9,835	2,545,262	258.80
1980	511	5,246,430	1,556,254,315	10,266	3,045,507	296.66	1980	1,272	12,503,275	3,846,298,865	9,829	3,023,819	307.64
1981	546	5,787,750	2,354,253,505	10,599	4,311,820	406.80	1981	1,476	14,422,470	5,550,752,067	9,771	3,760,672	384.87
1982	536	5,676,275	2,425,396,060	10,590	4,524,993	427.29	1982	1,464	14,537,052	6,153,820,288	9,930	4,203,429	423.31

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 11

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,413	96,931,320	1,321,426,000	3,814	51,998	13.63
1960	21,294	84,033,861	1,110,701,105	3,946	52,160	13.22
1961	21,204	82,924,129	1,086,761,395	3,911	51,253	13.11
1962	21,402	86,494,494	1,160,472,137	4,041	54,223	13.42
1963	20,678	81,099,806	1,071,138,207	3,922	51,801	13.21
1964	21,012	80,988,857	1,062,994,900	3,854	50,590	13.13
1965	18,857	76,547,513	1,066,795,319	4,059	56,573	13.94
1966	15,856	65,553,614	985,753,591	4,134	62,169	15.04
1967	14,935	59,934,309	995,368,948	4,013	66,647	16.61
1968	13,767	58,456,055	1,089,328,359	4,246	79,126	18.63
1969	12,915	57,934,449	1,117,128,484	4,486	86,499	19.28
1970	12,547	56,417,000	1,088,057,000	4,496	86,718	19.29
1971	11,405	48,585,207	894,505,082	4,260	78,431	18.41
1972	10,753	48,399,546	1,005,471,096	4,501	93,506	20.77
1973	9,705	44,667,140	1,006,975,314	4,602	103,758	22.54
1974	13,073	51,765,242	1,440,325,779	3,960	110,176	27.82

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	5,049	27,585,452	508,895,000	5,464	100,791	18.45
1960	5,262	29,078,303	540,179,339	5,526	102,656	18.58
1961	5,674	30,444,400	537,433,923	5,366	94,719	17.65
1962	5,858	31,431,795	568,771,758	5,366	97,093	18.10
1963	4,779	25,677,668	441,425,691	5,373	92,368	17.19
1964	4,874	27,493,848	510,564,089	5,641	104,753	18.57
1965	4,772	26,493,164	486,099,969	5,552	101,865	18.35
1966	4,060	24,974,116	543,251,563	6,151	133,806	21.75
1967	3,558	21,761,617	501,660,931	6,116	140,995	23.05
1968	3,324	20,531,823	493,736,115	6,177	148,537	24.05
1969	3,927	23,695,179	606,005,407	6,034	154,318	25.58
1970	3,844	23,093,000	617,583,000	6,007	160,662	26.74
1971	3,679	22,121,840	612,853,758	6,013	166,582	27.70
1972	5,086	28,884,634	802,385,522	5,679	157,764	27.78
1973	6,427	36,336,867	997,931,552	5,654	155,272	27.46
1974	6,695	37,131,063	1,266,540,323	5,546	189,177	34.11

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	19,101	80,995,626	820,775,000	4,240	42,970	10.13
1960	17,577	73,268,783	773,538,864	4,168	44,009	10.56
1961	17,110	73,300,612	773,967,327	4,284	45,235	10.56
1962	16,684	75,630,877	847,431,464	4,533	50,793	11.20
1963	16,396	74,702,588	790,300,052	4,556	48,201	10.58
1964	17,600	80,262,732	853,808,197	4,560	48,512	10.64
1965	15,967	75,664,405	848,541,238	4,739	53,143	11.21
1966	14,605	67,394,526	831,735,157	4,614	56,949	12.34
1967	13,045	62,309,864	802,148,507	4,777	61,491	12.87
1968	12,485	64,140,886	826,295,925	5,137	66,183	12.88
1969	12,639	67,075,559	887,537,373	5,307	70,222	13.23
1970	10,786	57,380,000	873,042,000	5,320	80,942	15.22
1971	9,956	53,936,938	864,132,673	5,418	86,795	16.02
1972	10,604	58,251,358	1,006,309,171	5,493	94,899	17.28
1973	10,112	55,656,749	1,069,625,386	5,504	105,778	19.22
1974	11,713	62,047,989	1,660,122,700	5,297	141,733	26.76

TOTAL WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	49,279	198,839,000	2,471,718,287	4,035	50,158	12.43
1955(1)	55,931	225,157,031	2,600,143,000	4,026	46,488	11.55
1956(1)	57,125	232,173,708	2,868,410,000	4,084	50,213	12.35
1959	49,563	205,512,398	2,651,096,000	4,146	53,500	12.90
1960	44,133	186,380,947	2,424,418,308	4,223	54,934	13.01
1961	43,988	186,669,141	2,398,162,645	4,244	54,518	12.85
1962	43,944	193,557,166	2,576,675,359	4,405	58,635	13.31
1963	41,853	181,480,062	2,302,863,950	4,336	55,023	12.69
1964	43,486	188,745,437	2,427,367,186	4,340	55,820	12.86
1965	39,596	178,705,082	2,407,436,526	4,513	60,648	13.44
1966	34,521	157,922,256	2,360,740,311	4,575	68,386	14.95
1967	31,538	144,005,790	2,299,178,386	4,566	72,902	15.97
1968	29,576	143,128,764	2,409,360,399	4,839	81,463	16.83
1969	29,481	148,705,227	2,610,671,264	5,044	88,554	17.56
1970	27,177	136,890,000	2,578,682,000	5,037	94,885	18.84
1971	25,040	124,643,985	2,371,491,513	4,978	94,703	19.03
1972	26,443	135,535,538	2,814,165,789	5,126	106,424	20.76
1973	26,244	136,660,756	3,074,532,252	5,207	117,152	22.50
1974	31,481	150,944,294	4,366,988,802	4,795	138,718	28.93

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(1) Data pertaining to well classification not available.

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 11a

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

		OIL WELLS							GAS WELLS				
Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	16,276	66,067,802	2,256,506,972	4,059	138,640	34.15	1975	7,654	43,375,924	2,005,410,425	5,667	262,008	46.23
1976	16,876	68,257,180	2,549,652,613	4,044	151,064	37.35	1976	8,904	48,356,781	2,401,418,577	5,432	270,375	49.78
1977	18,077	74,660,343	3,072,754,536	4,130	169,981	41.16	1977	11,479	62,513,243	3,599,098,807	5,446	313,538	57.57
1978	17,790	74,410,764	3,700,025,078	4,182	207,983	49.73	1978	13,306	72,819,462	4,978,821,805	5,472	374,178	68.38
1979	19,243	80,261,003	4,678,560,366	4,170	243,130	58.30	1979	14,079	77,339,864	6,238,126,029	5,493	443,080	80.66
1980	28,553	117,066,167	7,768,436,920	4,099	272,070	66.37	1980	15,225	85,819,648	8,166,722,612	5,636	536,402	95.17
1981	38,725	161,982,066	13,022,804,253	4,183	336,289	80.40	1981	17,533	100,257,519	12,248,133,650	5,718	698,576	122.17
1982	35,865	144,304,502	12,458,580,454	4,024	347,374	86.33	1982	17,052	100,803,518	14,737,668,260	5,912	864,278	146.19
		DRY HOLES							TOTAL WELLS DRILLED				
1975	13,030	68,198,413	2,309,296,526	5,234	177,229	33.86	1975	36,960	177,642,139	6,571,213,923	4,806	177,793	36.99
1976	13,159	67,795,184	2,504,609,071	5,152	190,334	36.94	1976	38,941	184,418,145	7,461,680,261	4,736	191,615	40.46
1977	14,270	75,520,822	3,284,599,701	5,292	230,175	43.49	1977	43,826	212,694,408	9,956,453,044	4,853	229,181	46.82
1978	15,559	83,388,702	4,382,243,151	5,359	281,653	52.56	1978	46,655	230,618,928	13,061,090,034	4,943	279,950	56.64
1979	15,201	79,911,275	5,162,243,973	5,256	339,598	64.61	1979	48,523	237,512,142	16,078,930,368	4,894	331,367	67.71
1980	18,233	93,145,141	6,865,196,177	5,108	376,525	73.71	1980	62,011	296,030,956	22,800,355,709	4,773	367,682	77.03
1981	24,558	126,560,512	11,394,518,597	5,154	463,934	90.03	1981	80,816	388,800,097	36,665,456,500	4,811	453,691	94.30
1982	23,735	117,510,149	12,231,869,854	4,951	515,352	104.09	1982	76,652	362,618,169	39,428,118,568	4,731	514,378	108.73

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry"
Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

FREE WORLD TOTAL WELL COMPLETIONS

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States	29,467	27,300	28,755	27,602	32,893	39,097	41,455	46,479	48,513	51,263	62,462	80,537	88,101
Canada	3,108	3,175	3,548	4,621	4,227	4,242	6,221	6,197	7,170	7,489	8,813	6,927	6,464
Mexico	502	516	431	422	408	353	336	307	406	333	434	412	336
Total North America	33,077	30,991	32,734	32,645	37,528	43,692	48,012	52,983	56,089	59,085	71,709	87,876	94,901
Argentina	579	595	623	597	606	552	646	647	865	773	953	904	822
Brazil	177	175	179	128	176	228	288	245	256	385	463	668	1,045
Ecuador	37	81	59	58	37	15	19	16	16	40	23	27	27
Peru	135	121	117	89	152	161	150	160	157	451	540	426	149
Trinidad-Tobago	135	220	196	212	200	189	192	217	215	188	218	243	200
Venezuela	589	464	371	427	416	284	337	446	637	1,030	1,275	1,491	1,500
Other	177	189	158	127	140	128	156	194	183	289	326	380	357
Total Latin America	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156	3,798	4,139	4,100
Total Western Hemisphere	34,906	32,836	34,437	34,283	39,255	45,249	49,800	54,908	58,418	62,241	75,507	92,015	99,001
Total North Sea	88	100	107	113	176	207	210	166	134	227	273	283	283
Other European	274	318	352	287	313	369	345	410	525	448	758	810	777
Total Europe	362	418	459	400	489	576	555	576	659	675	1,031	1,093	1,060
Algeria	115	109	80	83	79	107	54	130	60	267	249	159	0
Gabon	26	36	36	44	59	49	44	31	35	38	40	61	56
Libya	250	87	77	74	79	66	64	109	177	184	192	157	110
Nigeria	168	207	258	239	249	192	143	118	104	116	132	202	144
Other	150	214	194	157	162	191	130	208	208	236	257	369	461
Total Africa	709	653	645	597	628	605	435	596	584	841	870	948	771
Abu Dhabi(1)	7	19	37	37	64	49	82	67	78	89	123	146	169
Dubai(1)	0	7	16	18	17	17	30	31	12	7	13	11	23
Sharjah(1)	0	2	2	2	3	2	1	0	0	–	2	4	1
Iran	44	104	61	81	100	140	182	185	180	0	–	–	–
Iraq	6	17	0	16	2	0	2	NA	NA	66	67	–	–
Kuwait(2)	13	8	2	0	0	0	8	0	0	12	36	5	8
Saudi Arabia(2)	43	56	178	323	300	210	163	180	145	144	223	229	25
Neutral Zone(2)	23	12	9	13	19	14	15	4	0	3	4	5	6
Qatar	7	10	8	9	2	7	4	2	2	46	53	51	52
Oman	27	0	56	49	40	55	42	51	61	102	89	110	159
Other	72	58	56	61	83	102	75	124	107	143	207	210	128
Total Middle East	242	293	425	609	630	596	604	644	585	621	817	771	571
Indonesia	84	422	312	501	630	588	513	409	536	473	635	727	323
Other	162	157	223	197	180	157	229	295	440(4)	2,492	3,443	3,539	592
Total Far East	246	579	535	698	810	745	742	704	976	2,965	4,078	4,266	915
Total Eastern Hemisphere	1,559	1,943	2,064	2,304	2,557	2,522	2,336	2,520	2,804	5,102	6,796	7,078	3,317
TOTAL FREE WORLD	36,465	34,779	36,501	36,587	41,812	47,771	52,136	57,428	61,222	67,343	82,303	99,093	102,318

(1) Member of United Arab Emirates
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
(3) Less than one-tenth of one percent
NA Not Available

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

FREE WORLD TOTAL EXPLORATORY WELL COMPLETIONS

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States	7,693	6,922	7,539	7,466	8,619	9,214	9,234	9,961	10,677	10,484	11,916	15,168	16,482
Canada	1,537	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925	3,857	3,074	2,346
Mexico	130	129	143	104	98	87	79	79	83	NA	85	63	65
Total North America	9,360	8,585	9,315	9,789	10,452	10,950	11,794	12,841	13,904	NA	15,858	18,305	18,893
Argentina	113	157	110	139	117	78	83	143	81	NA	110	127	107
Brazil	100	87	80	78	86	87	105	155	89	NA	166	245	328
Ecuador	20	15	20	8	5	3	3	5	3	NA	0	3	5
Peru	28	21	25	31	43	43	36	37	28	NA	13	17	12
Trinidad-Tobago	23	35	23	15	13	14	23	17	8	NA	51	16	23
Venezuela	90	44	64	63	76	35	45	48	60	NA	69	351	250
Other	70	60	77	50	65	61	67	56	60	NA	NA	211	150
Total Latin America	444	419	399	384	405	321	362	406	329	NA	409	970	879
Total Western Hemisphere	9,804	9,004	9,714	10,173	10,857	11,271	12,156	13,247	14,233	NA	16,267	19,275	19,772
Total North Sea	66	53	51	70	92	124	109	21	38	168	NA	135	201
Other European	93	146	159	147	151	172	163	231	259	157	NA	372	398
Total Europe	159	199	210	217	243	296	272	252	297	325	NA	507	599
Algeria	37	25	10	13	9	17	11	11	3	3	2	1	1
Gabon	13	11	17	15	13	23	19	19	20	22	15	23	16
Libya	51	41	34	25	32	36	22	33	41	30	35	43	34
Nigeria	31	55	61	45	51	33	21	24	35	22	31	26	30
Other	131	125	101	80	86	91	89	117	102	133	124	191	216
Total Africa	263	257	223	178	191	200	162	204	201	204	207	284	297
Abu Dhabi(1)	7	8	21	7	3	0	9	5	19	NA	6	NA	22
Dubai(1)	0	0	0	1	0	0	5	9	5	NA	2	NA	3
Sharjah(1)	0	2	1	0	0	0	1	0	0	NA	2	NA	1
Iran	11	6	2	18	27	26	26	25	10	NA	0	NA	0
Iraq	1	0	0	3	2	0	2	NA	NA	NA	0	NA	0
Kuwait(2)	1	2	0	0	0	0	2	0	0	NA	2	NA	8
Saudi Arabia(2)	2	2	6	3	4	9	24	4	25	NA	40	NA	25
Neutral Zone(2)	0	0	0	0	0	0	0	0	0	NA	0	NA	2
Qatar	2	1	6	1	0	0	0	0	0	NA	3	NA	4
Oman	2	0	16	0	0	0	0	10	24	NA	15	NA	31
Other	46	27	29	32	34	65	51	46	39	NA	18	NA	71
Total Middle East	72	48	81	65	70	100	120	99	122	NA	88	NA	167
Indonesia	84	135	137	169	176	186	130	115	146(3)	NA	182	NA	167
Other	162	126	175	173	162	127	119	132	249	NA	221	NA	297
Total Far East	246	261	312	342	338	313	249	247	395	377	403	125	464
Total Eastern Hemisphere	740	765	826	802	842	909	803	802	1,015	NA	698	916	1,527
TOTAL FREE WORLD	10,544	9,769	10,540	10,975	11,699	12,180	12,959	14,049	15,248	14,315	16,695	20,191	21,299

(1) Member of United Arab Emirates
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
(3) Includes Oceania
NA Not Available
NOTE: Complete data for 1979 through 1981 is not available for all areas.

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

Section III
Table 14

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1
California	173	134	157	165	169	138	143	119	97	80	93	80	82	97
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6
Louisiana	239	231	243	257	280	312	401	442	423	309	332	287	275	261
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2
North Carolina	0	0	0	0	1	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53
TOTAL	2,107	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637

Source: Hughes Tool Company

Section III
Table 14a

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	5	2	1	2	2	3	6	7	8	15	13	12	14	17
Alaska	6	5	6	13	21	20	28	14	5	5	5	9	14	14
Arkansas	10	9	11	10	8	7	16	13	15	15	15	18	14	15
Arizona	1	2	1	1	3	1	2	0	1	0	2	1	0	1
California	85	93	89	79	83	87	78	52	46	46	51	72	80	89
Colorado	23	21	19	16	16	17	23	25	30	35	42	46	42	38
Florida	0	1	4	2	2	1	1	4	11	18	9	7	9	5
Georgia	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Idaho	1	0	0	0	0	0	0	1	0	0	1	0	0	1
Illinois	25	20	24	30	30	22	17	14	13	14	6	7	19	22
Indiana	6	6	5	5	3	2	1	1	1	1	0	1	2	0
Iowa	1	0	0	1	0	0	0	0	1	2	1	0	2	0
Kansas	96	87	70	56	41	35	38	30	29	24	28	44	57	51
Kentucky	10	8	12	13	9	5	2	1	2	2	1	2	1	1
Louisiana	265	282	270	256	235	233	230	204	194	215	205	203	228	231
Maryland	0	2	2	4	0	1	1	0	0	1	0	0	0	1
Michigan	14	13	11	9	10	10	10	11	12	17	20	24	28	24
Mississippi	46	39	35	34	33	36	40	43	39	37	29	29	25	32
Missouri	1	0	0	1	0	0	0	0	0	0	1	0	0	0
Montana	22	21	26	24	22	34	31	17	17	20	19	24	27	28
Nebraska	12	11	10	8	5	5	10	6	5	6	5	7	9	8
Nevada	0	1	2	1	1	2	0	0	0	0	0	1	0	2
New Mexico	84	79	65	60	56	68	64	40	47	56	62	79	71	54
New York	1	1	1	1	1	1	0	0	1	0	1	7	8	9
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	9	14	12	12	11	13	12	9	9	7	10	12	17	19
Ohio	12	56	22	14	18	22	22	24	17	22	36	30	21	26
Oklahoma	158	158	163	141	101	106	120	98	90	90	115	146	177	186
Oregon	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Pennsylvania	12	11	9	10	7	5	7	9	9	8	11	14	10	10
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	2	0	0	1	1	2	1	1	1	1	1	2
Tennessee	0	0	0	1	1	0	1	2	1	0	0	0	0	0
Texas	500	477	425	387	340	329	322	302	291	338	376	508	638	653
Utah	22	17	14	14	15	12	12	12	17	34	38	42	26	19
Virginia	1	1	1	0	0	0	0	1	1	0	1	2	3	0
Washington	1	0	0	1	1	0	0	0	0	0	0	0	0	0
West Virginia	14	16	24	19	15	16	18	16	17	17	20	16	10	12
Wyoming	55	48	50	48	44	75	81	71	45	61	70	107	107	86
TOTAL	1,500	1,502	1,387	1,273	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656

Source: Hughes Tool Company

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1977	1978	1979	1980	1981	1982	1983
Alabama	13	13	13	11	17	15	16
Alaska	15	16	13	14	23	22	14
Arkansas	14	14	10	27	34	27	26
Arizona	1	0	0	1	1	1	0
California	90	94	96	120	155	129	106
Colorado	45	41	40	61	82	60	52
Florida	6	6	5	4	8	5	4
Georgia	0	0	0	0	1	2	0
Hawaii	0	0	0	0	1	0	1
Idaho	1	3	2	3	3	2	1
Illinois	16	28	13	25	45	76	60
Indiana	3	4	0	0	1	7	6
Iowa	1	0	0	0	0	0	0
Kansas	67	76	66	120	196	157	124
Kentucky	2	3	0	0	5	10	8
Louisiana	292	338	347	427	456	343	283
Maryland	0	1	1	0	1	0	0
Michigan	24	24	25	31	36	31	29
Mississippi	41	44	40	58	71	42	33
Missouri	0	0	0	0	0	0	0
Montana	27	30	33	49	81	36	24
Nebraska	9	10	9	14	15	9	9
Nevada	3	2	4	5	5	3	1
New Mexico	69	76	88	118	135	103	65
New York	7	7	9	7	12	15	10
North Carolina	0	0	0	0	0	0	0
North Dakota	24	39	56	83	119	69	43
Ohio	33	45	46	75	98	57	39
Oklahoma	233	258	247	397	698	622	285
Oregon	0	0	1	1	2	1	0
Pennsylvania	15	25	29	29	44	33	22
Rhode Island	1	4	4	2	2	2	0
South Dakota	3	2	1	2	2	2	1
Tennessee	0	0	0	1	0	2	1
Texas	778	855	770	988	1,316	990	796
Utah	30	32	29	42	69	40	37
Virginia	1	1	1	1	3	2	2
Washington	0	0	0	0	1	1	1
West Virginia	17	27	30	38	45	49	34
Wyoming	120	137	147	156	191	143	96
TOTAL	2,001	2,255	2,176	2,910	3,970	3,105	2,229

Source: Hughes Tool Company

Section III
Table 15

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

	1967			1968			1969			1970		
STATE/AREA	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	28	10	38	18	14	32	34	14	48	27	18	45
Alaska	33	41	74	18	86	107	12	51	67	60	52	115
Offshore*	--	--	--	N.A.	N.A.	N.A.	2	44	50	1	18	21
Arizona	14	10	24	6	4	10	24	14	39	9	3	13
Arkansas	87	320	409	111	211	322	131	288	422	85	222	318
California*	352	2,182	2,668	353	2,366	2,888	288	1,712	2,167	250	1,834	2,370
Offshore	12	73	101	28	304	367	17	210	262	16	130	162
Colorado	277	262	539	270	224	495	538	276	820	476	234	710
Florida	11	--	11	9	4	13	8	5	13	10	15	25
Georgia	--	--	--	--	--	--	2	--	2	4	--	4
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	328	861	1,339	253	789	1,226	241	639	988	198	499	776
Indiana	254	220	510	158	179	367	178	189	407	144	143	302
Iowa	1	--	25	--	--	22	--	--	7	3	--	5
Kansas	1,270	1,937	3,345	1,186	1,849	3,107	1,058	1,919	3,105	833	1,588	2,465
Kentucky	458	1,086	1,647	453	828	1,379	256	696	1,030	228	581	885
Louisiana	935	2,209	3,185	1,026	2,415	3,478	855	2,272	3,174	671	2,277	2,985
Offshore*	296	559	867	352	696	1,068	147	678	835	140	698	851
Maryland	--	--	--	--	--	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	173	191	365	174	196	380	164	168	348	155	128	286
Minnesota	--	--	--	--	--	1	--	--	--	--	--	--
Mississippi	347	368	722	382	297	688	373	342	716	235	321	577
Missouri	4	--	19	4	12	38	7	22	57	4	10	14
Montana	302	252	580	465	400	882	499	296	834	424	179	621
Nebraska	95	84	179	196	89	288	285	98	388	161	76	238
Nevada	7	2	9	--	--	--	14	2	16	10	--	18
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	166	925	1,118	154	743	925	190	984	1,219	163	565	761
New York	35	176	238	9	97	120	6	128	166	11	88	110
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	60	93	156	121	62	186	178	74	252	109	58	168
Ohio	75	1,186	1,267	79	1,084	1,165	53	1,185	1,255	36	1,314	1,351
Oklahoma	421	2,431	3,074	422	2,318	2,996	546	2,567	3,395	458	2,227	2,901
Oregon	1	--	1	--	--	--	--	--	--	--	--	--
Offshore*	1	--	1	--	--	--	--	--	--	--	--	--
Pennsylvania	59	564	683	62	733	897	43	853	1,018	40	683	774
South Dakota	4	--	4	4	--	4	56	--	56	83	--	83
Tennessee	47	--	47	25	1	26	23	3	27	22	28	50
Texas	2,508	6,628	9,576	2,207	5,407	8,743	2,718	5,938	9,233	2,098	5,624	8,114
Offshore*	61	41	102	40	13	53	103	11	114	51	9	60
Utah	67	75	144	41	58	99	103	71	175	43	40	85
Vermont	--	--	--	--	--	--	1	--	1	--	--	--
Virginia	--	--	--	--	--	--	8	2	10	--	--	--
Washington*	3	--	3	2	--	2	--	--	--	--	--	--
Offshore	1	--	1	--	--	--	--	--	--	--	--	--
West Virginia	36	738	777	87	646	735	83	819	920	74	790	882
Wyoming	420	505	1,042	584	608	1,293	716	859	1,678	569	830	1,416
N. Gulf of Mexico(2)	--	--	--	--	--	--	--	--	--	--	--	--
Total	8,878	23,356	33,818	8,879	21,720	32,914	9,701	22,486	34,053	7,693	20,427	29,467

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 15a

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

	1971			1972			1973			1974		
STATE/AREA	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	48	14	64	85	30	116	70	32	102	58	40	98
Alaska	5	27	32	13	13	31	14	20	35	12	26	38
Offshore*	--	1	1	--	4	7	3	6	10	--	11	11
Arizona	5	3	8	12	10	23	4	4	8	5	6	11
Arkansas	92	250	365	101	243	350	79	206	292	90	227	320
California*	220	1,585	2,083	186	1,209	1,683	202	1,005	1,325	235	1,715	2,153
Offshore	15	55	74	4	60	86	1	49	63	6	58	71
Colorado	563	374	939	512	493	1,008	442	398	840	338	498	843
Florida	13	8	22	42	67	113	37	30	67	30	15	48
Georgia	2	--	2	2	--	2	3	--	3	5	--	5
Idaho	--	--	--	--	--	--	6	--	6	2	--	2
Illinois	165	399	636	149	453	655	196	360	611	220	575	823
Indiana	114	101	232	131	138	285	139	100	259	168	208	390
Iowa	1	--	1	--	--	--	--	--	--	2	--	2
Kansas	741	1,608	2,413	764	1,634	2,458	739	1,314	2,114	847	1,843	2,825
Kentucky	202	559	810	220	536	822	164	467	661	184	474	697
Louisiana	802	2,133	2,983	736	2,329	3,093	712	2,192	2,940	646	2,124	2,830
Offshore*	267	534	823	207	598	812	208	690	914	151	510	680
Maryland	--	--	--	--	--	--	--	--	1	2	--	2
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	161	141	305	182	127	317	176	102	281	258	144	414
Mississippi	200	286	498	236	181	462	207	143	361	292	150	450
Missouri	6	7	13	3	--	6	8	1	9	24	8	101
Montana	303	124	457	447	306	773	435	207	647	381	291	673
Nebraska	107	80	189	198	94	292	102	61	163	155	75	230
Nevada	13	--	13	2	--	2	--	--	--	2	--	2
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	129	687	833	216	818	1,059	191	859	1,098	209	919	1,142
New York	10	90	129	14	116	145	21	127	161	49	243	348
North Carolina	12	--	12	--	--	--	--	--	--	11	--	11
North Dakota	97	62	162	65	34	99	72	50	124	74	53	128
Ohio	27	1,130	1,161	55	1,276	1,333	60	1,444	1,504	172	1,616	1,790
Oklahoma	415	1,840	2,490	416	1,884	2,519	352	1,929	2,403	396	2,661	3,189
Oregon	--	--	--	--	--	--	3	--	3	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	22	619	701	66	835	956	97	1,002	1,142	101	1,107	1,322
South Dakota	35	--	36	26	10	36	21	1	22	9	2	11
Tennessee	128	67	195	67	27	94	66	32	100	85	50	135
Texas	1,818	5,453	7,728	1,973	5,693	8,088	2,325	5,773	8,494	2,907	6,622	9,808
Offshore*	38	6	44	47	6	53	66	6	72	150	13	163
Utah	55	32	87	86	74	160	70	125	196	56	139	196
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	18	18	4	5	9	8	53	61
Washington*	--	--	--	--	--	12	--	--	--	--	--	--
Offshore	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	66	702	780	83	591	679	80	621	701	102	677	780
Wyoming	345	548	921	451	513	1,066	369	516	920	470	518	1,001
N. Gulf of Mexico(2)	--	--	--	--	--	--	--	--	--	14	--	14
Total	6,922	18,929	27,300	7,539	19,752	28,755	7,466	19,126	27,602	8,619	23,079	32,893

* Included in state total.
(1) Includes service wells, stratigraphic and core tests.
(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1975			1976			1977			1978		
	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	65	45	110	69	64	133	44	88	133	63	105	169
Alaska	22	41	67	7	55	81	29	46	83	8	49	64
Offshore*	1	13	14	--	13	20	10	12	30	5	7	14
Arizona	2	--	3	--	--	--	--	--	--	4	3	7
Arkansas	78	243	329	76	354	440	86	399	485	95	347	450
Atlanta Coast							--	--	1	7	-	7
California	205	1,999	2,615	233	1,965	2,540	296	2,203	2,917	356	1,567	2,389
Offshore*	6	62	73	2	26	28	22	32	61	14	67	86
Colorado	413	778	1,198	372	675	1,052	383	822	1,211	463	733	1,224
Florida	27	19	47	14	16	30	12	13	29	16	13	29
Georgia	3	--	3	4	--	4	--	--	--	--	--	--
Idaho	1	--	1	2	--	2	1	--	1	6	--	6
Illinois	254	702	1,041	247	1,066	1,527	241	864	1,174	265	829	1,167
Indiana	156	217	400	195	290	507	277	339	624	267	400	683
Iowa	--	--	--	--	--	--	1	--	1	--	--	--
Kansas	879	2,180	3,398	914	2,793	3,977	980	2,824	3,933	1,107	3,128	4,322
Kentucky	313	605	973	373	700	1,094	365	640	1,039	351	573	961
Louisiana	708	2,328	3,098	611	2,814	3,476	645	2,710	3,398	662	2,396	3,084
Offshore*	151	495	653	102	567	678	137	634	781	119	553	683
Maryland	1	--	1	--	2	2	--	--	--	--	--	--
Massachusetts-Off	--	--	--	--	--	1	--	--	--	--	--	--
Michigan	272	244	519	282	216	522	329	266	600	266	241	521
Mississippi	263	188	453	266	201	469	260	275	540	247	239	489
Missouri	16	6	92	8	15	45	9	4	54	7	25	49
Montana	379	531	913	321	351	674	319	440	761	308	363	673
Nebraska	202	136	345	188	134	323	232	180	424	221	160	384
Nevada	4	--	4	7	--	7	14	5	19	13	3	16
New Jersey	--	--	--	--	--	1	--	--	--	--	--	--
New Mexico	170	1,043	1,247	172	811	1,006	172	1,164	1,350	174	1,371	1,583
New York	21	373	437	52	503	596	50	393	538	47	364	482
North Carolina	2	--	2	--	--	1	--	--	--	--	--	--
North Dakota	109	98	213	116	118	234	106	118	225	163	164	327
Ohio	121	1,099	1,223	171	1,748	1,919	125	2,466	2,593	40	2,564	2,606
Oklahoma	394	3,252	3,796	434	3,782	4,393	473	4,466	4,976	502	5,320	5,859
Oregon	--	--	--	--	--	--	2	--	2	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	109	1,290	1,496	71	1,191	1,311	93	1,361	1,462	96	1,631	1,748
South Dakota	22	2	28	27	5	32	22	18	41	17	28	45
Tennessee	143	60	203	165	50	215	156	88	244	151	71	222
Texas	3,203	8,883	12,483	3,269	9,141	12,740	3,549	10,730	14,759	3,741	10,565	14,747
Offshore*	162	10	174	147	79	226	143	195	338	143	147	290
Utah	66	128	196	39	82	126	94	179	277	79	182	277
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	8	28	36	3	8	11	9	16	25	5	26	31
Washington	--	--	--	3	--	3	--	--	--	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	91	700	794	99	809	956	108	1,062	1,213	165	1,228	1,404
Wyoming	461	802	1,301	395	571	975	465	826	1,307	477	905	1,395
N. Gulf of Mexico(2)	31	1	32	29	1	30	14	16	30	7	13	20
Total	9,214	28,021	39,097	9,234	30,531	41,445	9,961	35,021	46,479	10,677	36,380	48,513

* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 15c

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1979			1980			1981			1982		
	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	97	117	214	80	109	189	76	133	212	70	133	207
Alaska	20	49	77	14	116	134	20	118	141	8	190	203
Offshore*	6	4	10	--	3	5	--	--	--	--	--	--
Arizona	2	6	8	4	--	4	6	--	7	6	8	16
Arkansas	105	394	505	111	496	612	153	722	887	127	652	796
Atlantic Coast(3)	18	--	18	4	--	4	--	--	--	--	--	--
California	363	1,457	2,150	410	1,829	2,659	492	2,196	3,224	489	2,214	3,147
Offshore*	7	87	120	7	72	107	6	118	165	14	150	184
Colorado	439	590	1,036	487	765	1,253	737	964	1,707	743	1,244	1,990
Florida	15	22	41	5	6	12	9	12	23	11	14	25
Georgia							3	--	3	2	--	2
Idaho	2	--	2	6	--	6	5	--	5	5	--	5
Illinois	233	897	1,208	444	1,535	2,127	663	2,477	3,282	648	2,353	3,142
Indiana	186	305	500	324	404	746	348	461	831	449	573	1,051
Kansas	1,078	3,158	4,306	1,097	3,981	5,161	1,492	5,251	6,865	2,110	6,833	9,166
Kentucky	354	584	986	447	813	1,294	508	1,187	1,780	821	2,159	3,109
Louisiana	678	3,362	4,078	798	4,064	4,956	957	4,422	5,573	825	4,183	5,060
Offshore*	116	563	679	148	487	642	179	516	696	158	420	648
Maryland	--	--	9	--	--	--	--	--	--	--	--	--
Michigan	246	262	527	321	344	682	381	364	766	423	370	810
Mississippi	244	271	544	280	339	631	342	411	758	282	340	622
Missouri	15	50	81	15	8	31	34	79	223	92	262	469
Montana	298	451	750	374	501	882	432	628	1,064	427	755	1,204
Nebraska	258	191	453	293	242	538	263	342	607	227	221	453
Nevada	10	4	16	12	1	13	20	1	24	24	2	29
New Mexico	201	1,358	1,607	292	1,643	1,966	294	2,077	2,451	352	1,881	2,298
New York	51	366	428	20	458	494	108	465	581	44	480	525
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	144	220	364	242	343	586	377	364	743	448	367	816
Ohio	125	3,367	3,492	60	3,209	3,269	102	5,340	5,455	146	4,360	4,515
Oklahoma	484	5,863	6,362	508	8,533	9,073	651	10,649	11,329	682	11,301	12,008
Oregon	17	4	21	22	9	31	30	--	30	8	--	8
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	68	1,789	1,941	131	1,825	2,020	405	3,018	3,554	214	3,828	4,224
South Dakota	34	16	50	17	23	41	42	37	79	35	35	70
Tennessee	94	133	227	188	152	340	188	127	315	244	148	392
Texas	4,011	11,588	16,149	4,274	14,423	19,253	5,102	18,468	23,940	5,464	20,689	26,849
Offshore*	119	93	212	102	64	166	97	88	185	116	116	232
Utah	86	168	255	91	186	280	173	246	421	172	374	551
Virginia	4	21	25	1	13	14	3	38	41	29	70	99
Washington	--	--	--	--	--	--	--	--	--	6	--	16
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	108	1;332	1,474	112	1,565	1,717	155	1,668	1,882	157	1,846	2,045
Wyoming	379	930	1,335	412	977	1,407	575	1,098	1,705	665	1,397	2,122
N. Gulf of Mexico(2)	17	7	24	16	17	33	22	7	29	23	31	54
Alaska(3)	--	--	--	4	--	4	--	--	--	--	--	--
Pacific Coast(4)										4	--	4
Total	**10,484**	**39,332**	**51,263**	**11,916**	**48,929**	**62,462**	**15,168**	**63,370**	**80,537**	**16,482**	**69,313**	**88,108**

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(3) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1983 Explor- atory	1983 Develop- ment	1983 Total(1)
Alabama	86	104	190
Alaska	3	171	190
Offshore*	0	18	22
Arizona	10	1	16
Arkansas	152	688	860
Atlantic Coast(3)	12	0	12
California	222	2,448	3,163
Offshore*	14	127	171
Colorado	510	954	1,467
Florida	14	10	24
Georgia	0	0	0
Idaho	2	0	2
Illinois	639	2,028	2,753
Indiana	456	536	1,027
Kansas	1,559	5,599	7,406
Kentucky	973	2,174	3,278
Louisiana	574	3,922	4,575
Offshore*	107	600	709
Maryland	2	0	2
Michigan	323	488	823
Mississippi	266	307	573
Missouri	50	118	284
Montana	191	374	570
Nebraska	173	181	355
Nevada	9	0	9
New Mexico	218	1,340	1,601
New York	43	439	483
North Carolina	0	0	0
North Dakota	205	331	537
Ohio	183	5,900	6,098
Oklahoma	647	9,363	10,043
Oregon	0	0	0
Offshore*	0	0	0
Pennsylvania	121	2,332	2,531
South Dakota	48	32	80
Tennessee	643	284	927
Texas	4,822	19,142	24,616
Offshore*	193	164	357
Utah	136	265	421
Virginia	15	22	37
Washington	2	0	2
Offshore*	0	0	0
West Virginia	114	1,865	2,025
Wyoming	439	979	1,492
N. Gulf of Mexico(2)	11	42	53
Alaska(3)	0	0	0
Pacific Coast(3)	17	0	17
Total	13,890	62,439	78,542

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* Included in state total

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(3) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 16

U.S. ROTARY RIG CENSUS

Year	Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	DRILLING DEPTH CAPABILITIES (Thousand Feet)					Total Land Rigs	Drilling Barges	Offshore Rigs
						0-5	6-9	10-12	13-15	16-Over			
1967(1)	2,408	2,359	49	835	1,573	623	776	435	199	375	2,114	121	173
1968	2,111	2,067	44	603	1,508	493	680	381	185	372	1,825	114	172
1969	2,060	2,033	27	411	1,649	528	626	352	188	366	1,827	98	135
1970	1,898	1,869	29	567	1,331	434	580	322	219	343	1,662	106	130
1971	1,859	1,832	27	551	1,308	436	535	329	198	361	1,592	124	143
1972	1,768	1,741	27	387	1,381	409	490	301	171	397	1,551	77	140
1973	1,767	1,739	28	294	1,473	355	517	318	164	413	1,570	71	126
1974	1,894	1,881	13	125	1,769	387	529	339	214	425	1,715	66	113
1975	2,028	2,015	14	151	1,877	396	579	380	225	558	1,839	74	115
1976	2,204	2,180	24	225	1,979	468	633	366	239	498	1,964	76	164
1977	2,482	2,451	31	83	2,399	542	628	461	274	577	2,186	77	219
1978	2,851	2,818	33	66	2,785	557	723	565	313	693	2,524	91	236
1979	3,182	3,144	38	308	2,874	546	783	631	350	872	2,802	109	271
1980	3,672	3,626	46	130	3,542	605	885	704	419	1,059	3,255	115	302
1981	4,803	4,762	41	100	4,703	773	1,080	950	595	1,405	4,316	161	326
1982	5,644	5,606	38	2,419	3,225	821	1,285	1,104	717	1,717	5,139	157	348
1983	5,273	5,241	32	2,734	2,539	746	1,233	993	662	1,639	4,832	128	313
1984	4,580	4,553	27	1,490	3,090	571	1,077	933	591	1,408	4,102	131	347

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(1) Data for prior years not available on a comparable basis.

Source: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year)

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	4	4
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	2	2
Arizona	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Arkansas	160	165	168	179	190	200	230	240	240	255	260	300	320	370
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479
Maryland	--	--	--	--	--	--	--	--	--	--	--	--	38	38
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	--	9
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	50	53
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047
New York	1,700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000
North Dakota	--	--	--	--	--	--	--	--	--	--	--	--	28	28
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063
Oklahoma	3,250	3,400	3,500	3,600	3,600	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tennessee(1)	--	18	18	18	20	20	27	28	28	28	30	30	25	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612
Utah	--	--	--	--	--	--	--	--	--	--	--	--	37	35
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	53	92
West Virginia	15,800	16,100	15,500	13,900	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350
Other	30	34	40	43	70	100	109	117	125	130	145	170	--	--
Total	63,670	64,212	64,146	64,900	65,100	65,450	68,233	70,192	71,475	74,261	77,041	80,400	83,225	90,761

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(1) Prior to 1948 included with Kentucky

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section III
Table 17a

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	--	--	2	--	--	--	--	1	1	2	--	15	15	6
Alaska	5	8	10	13	11	19	21	18	44	51	40	50	52	52
Arizona	--	3	7	10	8	9	7	4	4	4	5	4	4	1
Arkansas	485	480	490	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172
California	774	826	879	950	1,033	1,068	1,059	994	897	980	962	1,086	1,095	1,142
Colorado	462	451	501	560	701	826	827	810	805	861	928	934	1,050	1,347
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	74	30	25	25	25	3	3	5	5	8	14	31	36	37
Indiana	300	290	285	280	275	275	271	265	263	50	83	87	106	474
Kansas	6,633	6,915	7,050	7,174	7,200	8,608	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800
Kentucky	5,119	5,200	5,210	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307
Louisiana	6,990	7,442	7,859	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248
Maryland	34	33	33	16	20	8	13	15	13	16	14	16	15	15
Michigan	155	174	175	195	226	250	244	199	211	1,235	1,171	1,317	1,145	503
Mississippi	472	490	450	435	370	376	360	347	322	325	400	252	250	239
Missouri	9	6	6	6	11	11	11	11	11	11	2	3	2	3
Montana	981	954	905	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450
Nebraska	49	47	44	41	39	37	37	36	35	35	29	29	29	25
New Mexico	6,491	6,967	7,150	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915
New York	1,109	1,130	1,130	1,155	1,150	1,164	1,159	1,155	818	600	600	650	789	700
North Dakota	28	29	31	31	31	31	31	19	33	29	29	21	44	34
Ohio	7,077	7,117	7,128	7,160	7,100	3,790	3,865	7,211	7,334	7,789	8,179	8,630	9,406	10,038
Oklahoma	6,218	6,324	6,639	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401
Pennsylvania	16,500	16,600	16,600	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,600	16,600	17,123
South Dakota	--	--	--	--	--	--	--	--	--	--	--	5	10	20
Tennessee	23	30	30	30	20	20	21	23	26	15	20	45	6	13
Texas	19,831	20,834	22,016	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646
Utah	135	121	135	135	148	156	168	165	171	173	178	200	158	114
Virginia	98	98	98	100	99	104	104	111	111	115	115	130	178	174
West Virginia	16,297	17,121	17,500	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450
Wyoming	460	547	578	610	701	741	749	787	521	800	840	887	850	900
Total	96,809	100,267	102,966	103,084	111,680	112,498	112,321	114,391	114,476	117,483	120,210	121,158	124,178	126,349

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section III
Table 17b

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	45	66	69	189	250	314	385	489
Alaska	61	50	50	52	58	71	79	97
Arizona	1	1	1	1	1	1	1	1
Arkansas	1,128	1,223	1,253	1,335	1,402	1,114	1,600	1,959
California	1,585	1,123	1,050	1,131	1,117	1,125	1,110	1,352
Colorado	1,380	1,500	2,053	2,318	2,574	2,997	3,543	4,008
Florida	--	--	--	--	--	--	--	--
Illinois	41	34	34	51	51	70	70	57
Indiana	478	563	596	641	655	698	720	736
Kansas	8,865	9,330	9,375	9,450	10,544	12,820	15,550	13,800
Kentucky	7,386	7,505	7,649	7,776	7,883	7,984	8,151	8,219
Louisiana	11,359	11,370	12,484	13,333	14,464	16,190	17,048	16,586
Maryland	15	14	12	12	12	9	10	8
Michigan	209	214	212	376	376	423	448	484
Mississippi	248	257	365	402	433	447	470	596
Missouri	3	3	7	7	0	0	0	0
Montana	1,235	1,490	1,438	1,755	1,881	1,881	2,140	2,111
Nebraska	19	17	18	22	20	22	25	23
New Mexico	10,352	10,674	11,812	12,609	13,598	14,571	15,560	16,967
New York	900	1,400	1,600	1,900	2,200	2,076	2,636	2,969
North Dakota	18	34	34	23	78	80	65	66
Ohio	10,382	11,509	13,032	14,197	15,827	17,251	19,405	22,112
Oklahoma	9,769	10,436	11,570	12,861	14,417	16,419	18,451	20,742
Oregon	0	0	0	0	5	5	9	6
Pennsylvania	17,300	17,500	17,396	18,900	19,800	19,900	21,500	23,000
South Dakota	20	20	20	20	10	13	39	38
Tennessee	5	7	49	75	184	177	255	340
Texas	26,184	27,762	31,512	33,157	35,650	37,724	40,612	44,130
Utah	271	71	535	171	182	200	226	282
Virginia	186	180	202	227	258	258	288	298
West Virginia	21,700	22,100	22,600	23,575	24,725	25,900	27,200	27,450
Wyoming	950	990	995	888	1,236	1,264	1,243	1,827
Total	132,095	137,443	148,018	157,454	169,891	182,004	198,839	210,753

Source: U.S. Energy Information Administration, Natural Gas Annuals

PRODUCING OIL WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	221	281	334	380
Alaska	--	--	--	--	--	--	--	--	--	--	--	2	5	17
Arizona	--	--	--	--	--	--	--	--	--	--	--	1	2	3
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021
Florida	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	11	11	11	11
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3,086
Missouri	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	107	127	121	120
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571
Nevada	--	--	--	--	--	--	(1)	--	--	--	2	2	2	2
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579
North Dakota	--	--	--	(1)	(1)	83	257	460	570	789	920	1,150	1,390	1,451
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260
South Dakota	--	--	--	--	--	--	(1)	(1)	(1)	(1)	3	4	14	19
Tennessee	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	35	35	34	27
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934
Utah	--	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	225	519	697	796
Virginia	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	4	6	7	5
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475
Other	140	160	190	230	270	297	333	364	366	422	--	1 (2)	1 (2)	1 (2)
Total	426,280	437,880	448,680	465,870	474,990	488,520	498,940	511,200	524,010	551,170	569,273	574,905	583,141	591,158

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(1) Included in Other
(2) Washington

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section III
Table 18a

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	418	449	502	519	518	524	532	546	550	562	556	544	586	582	608	633
Alaska	45	52	54	56	57	72	94	163	183	202	173	193	192	199	205	181
Arizona	5	4	9	8	10	6	20	22	29	28	30	28	28	25	28	27
Arkansas	6,330	5,918	6,010	6,018	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529
California	38,184	39,265	40,233	40,916	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534
Colorado	2,023	2,110	2,030	1,981	1,938	2,371	1,730	1,825	1,811	1,770	1,785	1,897	2,004	2,174	2,450	2,827
Florida	11	11	12	19	38	42	41	44	45	60	78	142	147	136	143	143
Illinois	31,911	30,174	30,149	29,500	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527
Indiana	5,679	5,607	5,951	5,381	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891
Kansas	40,933	46,750	46,951	46,715	47,354	46,016	47,597	45,145	44,665	43,490	42,180	41,055	41,520	41,755	41,945	42,240
Kentucky	19,857	19,448	14,903	15,226	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970
Louisiana	24,740	26,382	27,638	29,452	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274
Michigan	4,301	4,282	4,234	4,151	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770
Mississippi	2,819	2,560	2,682	2,580	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212
Missouri	116	105	105	100	142	150	146	128	164	126	139	137	135	157	163	173
Montana	3,342	3,692	3,642	3,329	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309
Nebraska	1,860	1,764	1,726	1,711	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291
Nevada	4	4	4	5	9	10	13	13	11	9	6	6	6	9	6	12
New Mexico	15,295	16,102	16,796	17,570	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939
New York	17,829	13,537	13,431	12,526	12,304	11,832	4,712	4,201	5,263	5,861	5,860	5,427	5,200	5,475	4,975	5,100
North Dakota	1,683	1,794	1,824	1,881	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568
Ohio	16,682	16,867	14,605	13,752	13,947	14,192	14,638	15,480	15,737	15,860	14,771	15,222	15,236	16,658	16,611	16,761
Oklahoma	79,387	80,799	81,475	80,511	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543
Pennsylvania	63,576	59,673	54,062	53,065	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805
South Dakota	19	19	24	24	28	29	28	27	26	26	33	29	27	31	38	43
Tennessee	30	40	39	38	33	32	33	32	35	59	78	73	67	154	172	215
Texas	196,396	197,659	198,070	199,119	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546
Utah	795	852	835	840	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188
Virginia	5	5	6	8	6	2	4	5	5	5	1	1	--	3	7	7
West Virginia	12,762	12,880	13,044	13,205	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800
Wyoming	7,880	7,581	7,611	8,019	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--	—	—
Total	594,917	596,385	588,657	588,225	589,203	583,302	565,289	553,920	542,227	530,990	517,318	508,443	497,378	497,631	500,333	499,110

Source: U.S. Bureau of Mines, Annual Petroleum Statements

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1977	1978	1979	1980	1981	1982	1983
Alabama	631	648	660	684	692	719	741
Alaska	298	348	396	443	700	760	672
Arizona	29	34	35	31	35	36	34
Arkansas	7,756	7,866	8,115	8,104	8,249	8,629	8,370
California	43,525	43,375	43,838	45,086	47,362	47,231	47,197
Colorado	3,027	3,260	3,450	3,490	2,898	3,113	4,591
Florida	140	111	115	121	117	123	137
Illinois	23,752	23,900	24,067	24,871	26,100	27,600	28,967
Indiana	5,076	5,296	5,452	5,452	5,715	6,047	6,465
Kansas	42,450	42,900	43,200	48,037	42,402	46,189	49,348
Kentucky	14,046	14,097	14,172	14,539	14,585	15,109	15,562
Louisiana	23,881	24,500	24,767	26,014	25,320	22,380	23,376
Michigan	3,903	3,890	3,890	4,900	4,417	4,536	4,913
Mississippi	2,806	2,956	3,263	3,676	3,154	2,640	2,727
Missouri	175	167	251	258	421	499	552
Montana	3,330	3,400	3,661	3,618	3,968	4,311	4,675
Nebraska	1,382	1,469	1,551	1,693	1,870	2,006	2,100
Nevada	18	16	20	20	(1)	(1)	(1)
New Mexico	14,338	17,453	21,526	15,103	16,289	16,526	17,409
New York	4,800	5,039	5,100	5,220	5,300	5,320	5,432
North Dakota	1,608	2,305	2,624	2,938	2,570	2,870	3,734
Ohio	17,338	18,289	19,596	21,132	22,441	24,752	26,287
Oklahoma	73,752	75,308	76,505	81,296	82,639	91,745	95,868
Pennsylvania	28,400	27,768	27,925	25,991	26,138	25,285	24,657
South Dakota	69	85	94	97	120	130	140
Tennessee	283	311	351	435	489	650	693
Texas	163,746	166,365	169,826	175,673	180,627	187,626	195,595
Utah	1,448	1,291	1,560	1,714	1,543	1,583	1,634
Virginia	4	5	7	8	(1)	(1)	(1)
West Virginia	13,900	14,100	14,250	14,425	14,700	14,900	15,300
Wyoming	11,123	10,200	11,128	12,648	11,574	11,792	11,349
Other	0	0	0	0	39	50	55
Total	507,034	516,752	531,395	547,717	557,009(2)	580,142(2)	603,290(2)

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(1) Included in other.

(2) In 1981, total includes 4,535 producing wells in federal waters, in 1982 4,985 in federal waters, and in 1983 4,710 in federal waters.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1983 -- World Oil, Forecast Review Issue

Producing Oil Wells by State and by Type
(as of December 31)

	1947		1948		1949		1950		1951		1952	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	33	0	33	0	39	0	58	0	75	4	92
Alaska	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	378	2,992	340	3,040	291	3,076	361	3,266	312	3,329	350	3,758
California	2,363	22,792	2,136	24,413	2,373	22,127	2,143	25,963	1,934	27,656	1,866	29,005
Colorado	127	411	113	611	87	662	191	572	135	700	85	886
Florida	4	1	5	3	5	6	1	11	1	11	1	11
Illinois	68	28,405	48	30,261	71	31,169	16	33,113	12	32,873	7	33,727
Indiana	2	2,807	18	3,252	35	3,739	12	3,946	18	4,222	22	4,473
Kansas	85	26,846	143	24,975	62	29,033	73	30,093	45	31,215	58	32,018
Kentucky	0	14,509	0	14,554	0	14,895	5	15,260	36	15,524	0	15,806
Louisiana	3,168	4,516	3,367	5,508	3,320	6,689	3,477	7,667	3,417	8,106	3,591	8,770
Michigan	276	3,356	296	3,131	387	3,268	141	3,577	155	3,730	134	3,858
Mississippi	416	636	495	737	476	886	280	1,168	126	1,466	206	1,504
Missouri	0	36	0	48	0	88	0	46	0	43	0	70
Montana	24	2,455	24	3,140	39	2,865	20	3,086	22	3,188	30	3,286
Nebraska	0	55	0	46	0	62	35	107	27	181	2	221
Nevada	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	3,636	1,395	3,288	2,004	3,014	2,509	3,232	2,597	3,283	2,768	3,462	3,141
New York	0	23,000	0	23,000	0	23,400	0	23,200	0	23,100	0	23,000
North Dakota	0	0	0	0	0	0	0	0	2	0	68	17
Ohio	50	22,825	65	22,945	60	21,740	50	19,750	50	18,450	40	19,410
Oklahoma	1,485	50,405	1,380	51,731	1,426	52,934	1,740	55,086	1,605	56,715	1,485	58,762
Pennsylvania	0	82,800	0	84,000	0	82,100	0	82,200	0	81,200	0	81,200
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	0	22	0	29	0	35	0	36	0	34	0	35
Texas	37,070	67,909	37,970	71,673	39,203	76,280	41,949	81,322	44,016	86,293	45,784	90,615
Utah	0	0	2	1	22	0	3	30	4	38	10	51
Virginia	0	12	0	15	0	15	0	15	0	15	0	25
Washington	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	17,000	0	16,200	0	15,900	0	15,200	0	14,600	0	14,200
Wyoming	247	3,905	336	4,222	464	4,452	323	4,887	313	5,292	242	4,614
U.S. Total	49,399	379,123	50,036	389,572	51,335	397,969	54,052	412,256	55,513	420,824	57,447	432,375

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1953		1954		1955		1956		1957		1958	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	2	110	5	108	11	102	62	97	35	181	27	227
Alaska	0	0	0	0	0	0	0	0	0	0	1	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	336	3,699	270	3,925	410	4,057	382	4,419	246	5,173	232	5,417
California	1,834	29,950	1,770	31,303	1,759	32,571	1,599	34,625	1,496	35,756	1,290	35,170
Colorado	132	1,098	97	1,633	345	1,784	433	1,724	572	1,612	573	1,625
Florida	0	12	0	13	0	11	0	11	0	11	0	11
Illinois	5	34,417	10	35,155	27	36,758	29	37,689	213	37,828	231	38,366
Indiana	9	4,825	3	4,954	23	5,011	19	5,160	300	4,816	173	5,094
Kansas	42	33,272	31	34,523	121	35,452	127	36,986	103	38,466	131	39,133
Kentucky	0	16,234	0	16,593	12	17,008	21	17,681	19	18,238	8	18,982
Louisiana	4,354	8,583	4,937	9,588	5,855	10,817	6,998	11,737	7,991	12,224	8,537	13,176
Michigan	123	3,863	190	3,842	550	3,689	550	3,453	615	3,397	41	4,198
Mississippi	307	1,536	319	1,547	497	1,617	628	1,801	327	2,005	352	2,087
Missouri	0	91	0	89	0	97	0	130	0	120	0	119
Montana	51	3,421	110	3,641	311	3,587	512	3,516	585	3,261	407	3,210
Nebraska	0	302	0	547	31	932	19	1,602	87	1,616	26	1,320
Nevada	0	0	0	1	0	3	0	3	0	2	0	2
New Mexico	3,644	3,606	3,710	3,656	3,502	4,727	3,563	5,424	4,259	5,809	3,972	6,839
New York	0	23,000	0	22,500	0	22,300	0	21,300	0	19,200	0	19,765
North Dakota	179	73	353	88	444	92	458	313	543	395	503	640
Ohio	70	19,400	90	15,210	80	14,660	75	14,745	130	14,700	175	14,850
Oklahoma	2,120	60,956	2,860	64,551	3,180	71,430	2,773	73,019	2,264	75,623	2,771	76,981
Pennsylvania	0	80,500	0	80,000	0	78,500	0	76,500	0	69,700	0	68,050
South Dakota	0	1	0	2	0	3	0	3	0	3	1	3
Tennessee	0	29	0	44	0	25	0	40	0	35	0	31
Texas	45,976	94,884	47,032	100,712	47,669	108,811	48,513	117,473	48,098	125,861	47,897	131,781
Utah	3	66	1	81	2	68	23	87	129	210	307	241
Virginia	0	25	0	25	0	25	0	20	0	0	0	0
Washington	0	0	0	0	0	0	0	0	2	0	1	0
West Virginia	0	13,600	0	13,000	0	12,500	0	12,000	0	12,700	0	12,740
Wyoming	278	4,841	368	5,321	535	5,681	473	5,959	513	6,074	467	6,334
U.S. Total	59,465	442,394	62,156	454,652	65,364	472,318	67,257	487,517	68,527	495,016	68,123	506,392

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1959		1960		1961		1962		1963		1964	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	29	244	0	380	0	414	0	447	0	499	0	479
Alaska	5	0	18	0	45	0	50	2	48	7	37	17
Arizona	1	0	2	1	0	4	0	13	0	5	0	10
Arkansas	178	5,881	183	5,810	190	6,267	543	5,301	160	5,239	150	5,950
California	1,115	36,101	1,196	36,388	1,033	37,203	1,213	37,980	1,251	39,099	1,270	39,510
Colorado	382	1,701	127	1,892	115	1,864	110	1,865	72	1,888	58	1,832
Florida	0	11	0	11	0	11	0	11	0	12	0	16
Illinois	128	38,736	67	38,239	74	39,381	0	30,196	0	30,114	0	29,319
Indiana	169	5,303	86	5,381	84	5,792	0	5,887	0	5,937	0	5,949
Kansas	243	39,921	312	46,270	270	46,920	275	47,286	278	47,587	300	48,700
Kentucky	19	21,137	13	20,733	15	20,746	0	19,800	0	19,000	0	15,726
Louisiana	9,280	13,805	8,896	14,389	9,420	14,612	10,951	14,691	11,692	16,037	12,401	17,260
Michigan	59	4,332	850	3,704	931	3,413	832	3,538	915	3,188	915	3,660
Mississippi	383	2,236	277	2,347	289	2,408	525	2,035	554	2,139	342	2,238
Missouri	0	95	0	121	0	120	0	111	0	118	0	87
Montana	331	3,375	33	3,478	33	3,404	41	3,659	36	3,552	34	3,960
Nebraska	21	1,473	15	1,627	18	1,967	0	1,855	5	1,769	5	1,733
Nevada	0	2	0	2	0	2	0	2	0	4	0	5
New Mexico	4,530	7,657	5,323	7,261	4,880	8,857	5,324	8,909	4,861	9,003	4,814	9,828
New York	0	19,275	0	19,000	0	18,000	0	13,500	0	13,100	0	12,800
North Dakota	392	988	74	1,343	92	1,453	567	1,015	600	1,206	453	1,428
Ohio	160	14,768	150	14,560	145	14,305	150	14,350	80	14,525	50	13,683
Oklahoma	2,987	78,128	3,147	80,459	3,775	81,048	3,750	77,795	3,840	77,686	3,857	76,602
Pennsylvania	0	67,580	10	65,000	0	61,896	0	56,900	20	55,360	22	53,043
South Dakota	0	11	0	19	0	24	0	18	0	24	0	24
Tennessee	0	30	0	27	0	30	0	30	0	40	0	41
Texas	47,366	138,298	45,722	143,789	44,936	147,587	44,202	149,526	42,218	152,251	40,481	154,088
Utah	346	317	352	404	349	602	320	500	318	520	15	926
Virginia	0	0	0	8	0	8	0	5	0	6	0	6
Washington	1	0	1	0	1	0	0	0	0	0	0	0
West Virginia	0	12,885	0	12,950	0	12,350	0	12,800	0	13,000	0	13,200
Wyoming	489	6,629	413	7,117	408	7,417	400	9,000	455	7,459	450	7,481
U.S. Total	68,614	520,919	67,267	532,710	67,103	538,105	69,253	519,027	67,403	520,374	65,654	519,601

Source: World Oil Magazine

Section III
Table 19c

Producing Oil Wells by State and by Type
(as of December 31)

	1965		1966		1967		1968		1969		1970	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	530	0	520	4	529	5	542	7	467	8	468
Alaska	25	35	42	15	70	19	93	86	58	135	41	120
Arizona	6	4	6	4	(1)	(1)	0	(1)	0	0	(1)	(1)
Arkansas	212	5,730	104	5,453	197	6,237	83	5,896	106	6,012	100	6,100
California	1,204	40,323	1,176	40,516	1,026	40,597	1,428	40,103	1,390	39,505	1,350	37,718
Colorado	61	1,771	42	1,649	37	1,773	33	1,782	30	1,748	37	1,733
Florida	2	36	0	41	(1)	(1)	0	(1)	0	0	(1)	(1)
Illinois	0	29,012	20	28,550	0	27,874	0	27,242	0	26,737	0	26,298
Indiana	0	4,149	0	4,149	0	3,637	0	3,621	0	3,646	0	3,607
Kansas	300	46,200	300	40,622	400	45,925	400	44,755	350	44,390	350	44,315
Kentucky	0	15,600	0	16,000	500	13,500	609	13,000	532	13,220	502	14,000
Louisiana	12,982	17,921	12,338	18,546	12,435	18,511	11,018	19,015	10,756	18,861	9,064	19,214
Michigan	890	3,153	800	3,204	77	3,291	686	3,587	551	3,821	677	3,196
Mississippi	354	2,159	362	2,187	348	2,172	328	2,271	303	2,245	290	2,276
Missouri	0	100	0	142	(1)	(1)	0	(1)	0	0	(1)	(1)
Montana	46	3,677	11	3,582	38	3,724	14	3,252	25	3,460	3	3,159
Nebraska	5	1,614	0	1,493	4	1,457	3	1,404	2	1,369	6	1,299
Nevada	0	9	0	10	(1)	(1)	0	(1)	0	0	(1)	(1)
New Mexico	4,682	9,753	3,499	10,798	3,645	10,712	3,277	11,106	3,186	11,152	3,198	11,075
New York	0	11,700	100	12,200	100	12,000	0	11,500	0	9,500	0	5,000
North Dakota	524	1,439	315	1,718	250	1,513	224	1,503	495	1,155	229	1,506
Ohio	60	13,873	50	14,133	50	14,240	60	14,347	80	14,584	60	14,727
Oklahoma	3,800	76,200	4,000	77,477	4,000	76,971	4,000	76,999	4,000	76,947	4,000	74,212
Pennsylvania	18	52,713	75	50,570	50	45,376	50	35,950	50	33,950	70	30,555
South Dakota	0	29	0	29	(1)	(1)	0	(1)	0	0	(1)	(1)
Tennessee	0	42	0	34	(1)	(1)	0	(1)	0	0	(1)	(1)
Texas	39,052	155,618	36,160	155,281	33,060	155,761	31,525	152,452	28,934	149,837	26,199	146,014
Utah	9	852	10	861	15	981	15	881	15	867	23	884
Virginia	0	7	0	2	(1)	(1)	0	(1)	0	0	(1)	(1)
West Virginia	0	13,400	0	13,300	0	14,250	0	14,000	0	13,800	0	13,700
Wyoming	400	7,594	422	8,012	456	8,091	527	8,396	687	8,386	700	8,800
Other	0	0	0	0	3	263	0	263	0	289	21	273
U.S. Total	64,632	515,243	59,832	511,098	57,465	509,404	54,378	493,593	51,557	486,083	46,928	470,249

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(1) Included in other

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1971		1972		1973		1974		1975		1976	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	14	524	27	499	44	510	35	384	36	530	40	593
Alaska	53	130	58	139	52	140	42	186	36	164	38	152
Arizona	0	29	1	22	1	22	0	28	0	28	0	27
Arkansas	60	7,086	69	7,168	96	6,328	123	6,993	125	6,947	140	7,072
California	1,300	39,298	421	39,865	496	42,847	453	39,777	370	40,569	496	44,287
Colorado	50	1,845	110	1,709	134	1,721	119	1,921	108	2,232	111	2,265
Florida	8	65	68	67	81	64	63	70	72	72	66	78
Illinois	0	25,369	0	24,736	0	24,307	0	23,718	0	23,360	0	23,509
Indiana	0	3,600	0	4,379	0	4,323	0	4,376	0	4,380	0	4,798
Kansas	325	41,960	325	40,730	319	42,181	276	41,480	250	41,695	200	42,050
Kentucky	557	14,100	560	14,056	100	14,316	0	14,129	0	14,231	0	13,970
Louisiana	7,534	18,216	7,388	19,208	6,203	21,666	6,545	21,428	5,979	21,755	6,128	20,272
Michigan	650	3,200	668	3,129	659	3,082	682	3,132	548	3,107	608	3,162
Mississippi	300	2,255	275	2.298	202	2,108	180	2,074	160	2,077	149	2,063
Missouri	0	139	0	138	0	135	0	137	0	157	0	145
Montana	23	3,707	19	3,196	3	3,533	7	3,021	7	3,143	12	3,298
Nebraska	4	1,190	4	1,176	0	1,118	0	1,109	0	1,127	0	1,292
Nevada	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	2,388	10,997	2,386	11,048	2,300	11,138	2,143	11,139	2,255	11,395	2,313	11,533
New York	0	5,860	0	5,500	0	5,400	0	5,475	0	4,975	0	5,000
North Dakota	263	1,453	225	1,340	224	1,237	243	1,245	236	1,248	269	1,302
Ohio	50	14,581	295	14,491	304	14,847	302	14,847	288	14,877	310	15,143
Oklahoma	4,000	71,549	4,000	69,807	3,943	69,082	3,879	67,969	4,089	67,568	4,131	68,257
Pennsylvania	70	29,731	80	26,949	75	32,521	75	30,825	50	32,200	65	32,000
South Dakota	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Tennessee	12	59	16	40	6	61	31	56	55	94	75	122
Texas	24,305	149,902	22,680	148,689	19,998	139,314	20,063	140,011	18,584	152,462	16,997	143,678
Utah	46	828	87	812	82	1,362	230	989	121	935	100	1,088
Virginia	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Washington	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
West Virginia	0	13,500	0	13,530	0	13,600	0	13,650	0	13,750	0	13,800
Wyoming	650	8,600	600	8,350	535	7,107	606	8,050	662	8,788	720	9,307
Other	0	36	0	72	10	31	9	28	9	28	1	17
U.S. Total	42,662	469,809	40,362	463,143	35,867	464,101	36,105	458,247	34,040	473,900	32,969	47[illegible],299

(1) Included in other

Source: World Oil Magazine

Section III
Table 19e

Producing Oil Wells by State and by Type
(as of December 31)

	1977		1978		1979		1980		1981		1982	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	40	597	55	575	57	457	57	612	103	589	122	597
Alaska	135	156	188	178	240	160	412	230	296	404	330	430
Arizona	0	28	0	31	0	35	0	32	0	35	0	36
Arkansas	155	7,348	197	7,356	202	7,496	140	7,964	156	8,093	173	8,456
California	481	42,973	517	44,482	1,635	43,039	1,667	43,924	1,592	45,770	1,470	45,761
Colorado	213	2,832	226	3,001	183	3,219	188	3,302	151	2,747	218	2,895
Florida	144	0	50	65	43	72	40	80	42	75	50	73
Illinois	0	23,828	0	23,869	0	24,067	0	24,745	0	26,100	0	27,600
Indiana	0	4,891	0	5,076	0	5,296	0	5,452	0	5,715	0	6,047
Kansas	200	42,250	204	43,054	223	47,156	60	47,397	42	42,360	46	46,143
Kentucky	0	14,046	0	14,149	0	14,097	0	14,517	0	14,585	0	15,109
Louisiana	2,228	21,653	2,244	22,256	4,251	20,516	4,226	21,788	3,871	21,449	2,001	20,379
Michigan	603	3,300	547	3,343	547	3,343	585	3,524	631	3,786	636	3,900
Mississippi	152	2,108	88	2,166	91	2,465	120	2,511	144	3,010	132	2,508
Missouri	0	161	0	161	0	188	20	238	0	421	0	499
Montana	70	3,284	328	2,947	375	3,198	325	3,303	375	3,593	350	3,961
Nebraska	0	1,369	0	1,455	0	1,535	4	1,675	0	1,870	0	2,006
Nevada	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
New Mexico	2,405	11,860	2,144	12,254	2,723	12,322	2,565	13,181	2,986	13,303	3,068	13,458
New York	0	4,800	0	4,900	0	4,800	0	5,000	0	5,300	0	5,320
North Dakota	297	1,341	358	1,374	404	1,504	554	1,736	622	1,948	800	2,070
Ohio	347	17,016	362	17,735	384	18,793	409	20,042	447	21,994	470	24,282
Oklahoma	4,203	69,450	4,247	70,623	4,345	72,160	4,332	74,131	4,563	78,076	5,046	86,699
Pennsylvania	50	28,755	50	28,350	56	27,712	56	27,869	52	26,086	52	25,233
South Dakota	(1)	(1)	0	(1)	3	85	3	115	0	120	0	130
Tennessee	115	157	119	160	144	194	106	335	117	372	120	530
Texas	16,168	147,647	16,109	149,708	16,665	151,458	16,751	157,940	17,351	163,276	16,170	171,456
U.S. Federal Waters	2,702	829	2,624	805	915	2,344	917	2,349	3,267	1,268	3,589	1,396
Utah	369	494	552	739	576	770	436	1,042	419	1,124	396	1,187
Virginia	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
Washington	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
West Virginia	0	13,900	0	14,100	0	14,225	0	14,425	0	14,700	0	14,900
Wyoming	725	9,378	718	9,293	724	9,335	736	9,491	833	10,741	825	10,967
Other	13	74	0	106	0	28	0	31	0	39	1	49
U.S. Total	31,815	476,525	31,927	484,311	34,786	492,069	34,529	508,981	38,060	518,949	36,065	544,077

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(1) Included in other

Source: World Oil Magazine

Section III
Table 19f

Producing Oil Wells by State and by Type
(as of December 31)

	1983	
	Flowing	Artificial Lift
Alabama	102	639
Alaska	406	266
Arizona	0	34
Arkansas	168	8,202
California	1,482	45,715
Colorado	304	4,287
Florida	62	75
Illinois	0	28,967
Indiana	0	6,465
Kansas	53	49,295
Kentucky	0	15,562
Louisiana	2,110	21,266
Michigan	663	4,250
Mississippi	135	2,592
Missouri	0	552
Montana	400	4,275
Nebraska	0	2,100
Nevada	0	(1)
New Mexico	3,161	14,248
New York	7	5,425
North Dakota	717	3,017
Ohio	523	25,764
Oklahoma	4,794	91,074
Pennsylvania	47	24,610
South Dakota	0	140
Tennessee	126	567
Texas	15,182	180,413
U.S. Federal Waters	1,370	3,340
Utah	388	1,246
Virginia	0	(1)
Washington	0	(1)
West Virginia	0	15,300
Wyoming	794	10,555
Other	0	55
U.S. Total	32,994	570,296

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(1) Included in other

Source: World Oil Magazine

PRODUCING OIL WELLS IN FREE WORLD
(As of July 1)

COUNTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978
Australia	386	402	398	394	373	361	378	359	375
Brunei-Malaysia	592	537	558	126	519	504	574	648	712
India	200	1,545	1,545	1,500	2,500	1,545	1,548	1,600	1,600
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018	3,162	3,421	3,644
Japan	1,725	2,341	1,078	1,084	1,044	1,009	464	448	542
TOTAL ASIA-PACIFIC	5,200	7,046	6,692	6,479	6,861	7,156	6,645	7,006	7,407
Austria	1,268	1,298	1,270	1,250	1,271	1,291	1,222	1,219	1,250
Netherlands	369	351	319	319	347	368	392	393	416
Norway	--	1	4	4	6	24	29	36	50
United Kingdom	60	55	56	63	57	77	90	135	109
West Germany	3,065	3,078	2,833	2,782	2,699	2,699	2,827	2,933	2,933
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981	6,109	6,266	5,208
Abu Dhabi	94	98	115	142	160	216	209	232	240
Iran	266	280	313	350	369	425	428	518	551
Iraq	113	122	132	133	156	156	170	200	250
Kuwait	741	692	692	692	692	692	596	586	586
Neutral Zone	450	480	440	362	449	449	476	459	455
Qatar	69	80	84	92	81	88	77	77	95
Saudi Arabia	423	425	535	627	670	711	701	754	875
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919	3,007	4,161	4,307
Algeria	775	497	524	574	826	984	826	801	989
Egypt	332	204	245	261	437	319	376	401	430
Gabon	100	101	114	122	137	184	212	240	211
Libya	1,083	995	763	895	979	851	877	797	817
Nigeria	364	570	774	898	1,088	1,052	1,259	1,374	1,322
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699	3,804	3,956	4,160
Mexico	3,127	3,908	3,412	4,345	3,301	3,285	3,382	3,419	4,145
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718	10,720	1,932	11,909
United States	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752
Canada	23,675	22,779	20,911	22,996	21,202	18,573	25,055	26,112	25,800
TOTAL WESTERN HEMISPHERE	582,649	569,172	558,947	551,543	548,894	546,866	574,224	555,034	575,695
TOTAL FREE WORLD	598,852	586,949	576,226	570,094	568,806	567,621	593,789	576,423	596,777

Source: United States, U.S. Department of Energy
Rest of World, Oil and Gas Journal

PRODUCING OIL WELLS IN FREE WORLD
(As of July 1)

COUNTRY	1979	1980	1981	1982	1983
Australia	370	403	399	435	509
Brunei-Malaysia	819	808	788	843	965
India	1,600	1,600	1,600	1,560	1,560
Indonesia	3,823	3,700	4,077	4,341	4,840
Japan	507	388	382	397	370
TOTAL ASIA-PACIFIC	7,684	7,465	7,843	8,184	8,885
Austria	1,254	1,120	1,164	1,229	1,240
Netherlands	473	480	516	533	623
Norway	50	100	117	131	144
United Kingdom	240	290	361	379	387
West Germany	2,945	2,957	3,004	3,077	3,142
TOTAL WESTERN EUROPE	5,421	5,401	5,708	5,978	6,228
Abu Dhabi	250	341	277	352	222
Iran	547	547	530	530	530
Iraq	250	250	280	280	290
Kuwait	590	590	546	530	530
Neutral Zone	423	412	450	445	450
Qatar	95	124	128	125	125
Saudi Arabia	725	733	782	555	555
TOTAL MIDDLE EAST	4,381	4,193	4,304	4,639	4,643
Algeria	970	1,000	1,050	1,085	1,090
Egypt	432	484	450	411	500
Gabon	218	242	250	266	270
Libya	896	886	889	891	905
Nigeria	1,457	1,451	1,491	1,312	1,296
TOTAL AFRICA	4,372	4,522	4,672	4,565	4,860
Mexico	4,200	3,384	3,593	3,605	3,640
Venezuela	12,486	5,042	13,610	14,029	11,604
United States	531,395	547,717	557,009	580,142	636,900
Canada	18,323	20,721	33,404	33,907	36,388
TOTAL WESTERN HEMISPHERE	583,748	594,741	625,056	650,162	708,342
TOTAL FREE WORLD	608,606	616,322	647,583	673,528	732,958

Source: United States, 1976-1980: U.S. Department of Energy
1981: World Oil Magazine
Rest of World, Oil and Gas Journal
1983: Oil and Gas Journal

BASIC PETROLEUM DATA BOOK

SECTION IV. PRODUCTION

Table 1. World Crude Oil Production by Area

Table 2. World Crude Oil Production - Twenty Leading Nations

Table 3. U.S. Stripper Wells and Stripper Well Production

Table 4. U.S. Crude Oil Production by State

Table 5. U.S. Crude Oil Production Per Well Per Day by State

Section IV
Table 1

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Total Free World	Communist Nations	Total World
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	3,022,139
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	3,433,234
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	3,404,142
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	3,803,027
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	4,282,730
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	4,531,114
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	4,798,055
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	5,016,591
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	5,625,659
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	6,124,676
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,102	166,631	5,617,319	821,125	6,438,444
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,713	169,824	5,676,265	931,485	6,607,750
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,943	193,308	6,074,425	1,058,813	7,133,238
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	7,674,460
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	8,186,213
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	8,881,858
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	9,538,346
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	10,309,644
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	11,062,515
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	12,021,786
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	12,914,340
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	14,146,318
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	15,222,511
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	16,718,708
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	17,662,793
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	18,600,745
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	20,367,981
1974	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	20,537,727

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(1) Includes lease condensate

Source: U.S. Department of the Interior, Bureau of Mines–1947–1958: Minerals Yearbook, Annual
1959–1972: International Petroleum Annual
1973–1974: World Crude Oil Production Annual 1974, July 17, 1975

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia-Pacific	Total Free World	Communist Nations	Total World
1975	3,056,779	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,174,305	4,328,030	19,502,335
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	21,191,540
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	21,900,695
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	22,158,251
1979	3,114,545	546,040	1,919,535	828,550	7,868,670	2,423,600	1,051,200	17,752,140	5,118,030	22,870,170
1980	3,146,502	521,184	2,036,058	893,406	6,735,498	2,226,378	1,000,278	16,559,304	5,206,350	21,765,654
1981	3,128,780	469,025	2,179,415	955,570	5,749,480	1,672,065	1,027,110	15,181,445	5,192,125	20,373,570
1982	3,156,715	452,965	2,255,355	1,085,145	4,581,480	1,622,790	961,410	14,116,160	5,278,995	19,395,155
1983	3,159,440	529,250	2,213,360	1,236,620	4,215,385	1,609,650	1,024,555	13,988,260	5,286,295	19,274,555

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(1) Includes lease condensate

Source: U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-1983: Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION—TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1974	Nation	1975	Nation	1976
1. U.S.S.R.(1)	3,373,650	1. U.S.S.R.(1)	3,608,850	1. U.S.S.R.(1)	3,822,000
2. United States(1)	3,202,585	2. United States(1)	3,052,048	2. Saudi Arabia(2)	3,053,887
3. Saudi Arabia(2)	2,996,543	3. Saudi Arabia(2)	2,491,834	3. United States(1)	2,976,180
4. Iran	2,197,901	4. Iran	1,952,650	4. Iran	2,168,237
5. Venezuela	1,086,332	5. Venezuela	856,364	5. Venezuela	839,737
6. Kuwait(2)	830,580	6. Iraq	825,521	6. Iraq	834,810
7. Nigeria	823,347	7. Kuwait(2)	670,918	7. Nigeria	756,064
8. Iraq	720,729	8. Nigeria	651,890	8. Libya	704,011
9. Canada	616,532	9. United Arab Emirates	618,310	9. Kuwait(2)	700,000
10. United Arab Emirates	616,485	10. People's Republic of China	571,590	10. United Arab Emirates	692,106
11. Libya	555,291	11. Libya	551,150	11. People's Republic of China	645,897
12. Indonesia	501,838	12. Canada	520,666	12. Indonesia	550,319
13. People's Republic of China	474,500	13. Indonesia	477,055	13. Canada	488,680
14. Algeria	368,139	14. Algeria	350,753	14. Algeria	383,816
15. Mexico(1)	238,271	15. Mexico	294,254	15. Mexico	327,285
16. Qatar	189,348	16. Qatar	159,482	16. Qatar	178,120
17. Argentina	151,110	17. Australia	149,873	17. Australia	152,522
18. Australia	140,396	18. Argentina	144,364	18. Argentina	145,561
19. Romania	107,964	19. Oman	124,600	19. Oman	133,795
20. Oman	106,046	20. Romania	108,739	20. Egypt	120,180
TOTAL FREE WORLD	16,542,571	TOTAL FREE WORLD	15,169,574	TOTAL FREE WORLD	16,575,174
TOTAL WORLD	20,537,727	TOTAL WORLD	19,497,604	TOTAL WORLD	21,191,540

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: U.S. Energy Information Administration, World Crude Oil Production Annual

Section IV
Table 2a

WORLD CRUDE OIL PRODUCTION-TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1977	Nation	1978	Nation	1979
1. U.S.S.R.(1)	3,991,050	1. U.S.S.R.	4,093,475	1. U.S.S.R.	4,187,280
2. Saudi Arabia(2)	3,290,000	2. United States(1)	3,175,927	2. Saudi Arabia	3,376,615
3. United States(1)	3,009,265	3. Saudi Arabia(2)	3,113,470	3. United States(1)	3,114,545
4. Iran	2,080,051	4. Iran	1,900,555	4. Iraq	1,269,105
5. Iraq	909,945	5. Iraq	959,585	5. Iran	1,156,320
6. Venezuela	816,818	6. Venezuela	790,418	6. Venezuela	859,940
7. Nigeria	765,473	7. People's Republic of China	731,825	7. Nigeria	840,230
8. Libya	753,178	8. Libya	727,445	8. Kuwait	807,745
9. United Arab Emirates	729,506	9. Nigeria	697,150	9. People's Republic of China	774,530
10. People's Republic of China	653,350	10. Kuwait(2)	680,725	10. Libya	763,580
11. Kuwait(2)	650,795	11. United Arab Emirates	668,680	11. United Arab Emirates	668,315
12. Indonesia	615,123	12. Indonesia	597,505	12. Indonesia	580,715
13. Canada	482,021	13. Canada(1)	483,260	13. United Kingdom	572,320
14. Algeria	409,864	14. Algeria(1)	447,125	14. Canada(1)	546,040
15. Mexico	358,090	15. Mexico(1)	440,555	15. Mexico(1)	533,265
16. United Kingdom	271,653	16. United Kingdom	394,930	16. Algeria(1)	415,005
17. Qatar	162,316	17. Qatar	176,537	17. Neutral Zone	207,320
18. Argentina	157,248	18. Neutral Zone	170,090	18. Egypt	191,625
19. Australia	157,155	19. Egypt	169,360	19. Brunei-Malaysia	187,975
20. Egypt	150,925	20. Argentina	165,195	20. Qatar	185,420
TOTAL FREE WORLD	17,108,078	TOTAL FREE WORLD	17,195,001	TOTAL FREE WORLD	17,825,515
TOTAL WORLD	21,900,695	TOTAL WORLD	22,158,251	TOTAL WORLD	22,970,545

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: 1977-1978-U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION - TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1980	Nation	1981	Nation	1982
1. U.S.S.R.	4,282,200	1. U.S.S.R.	4,303,350	1. U.S.S.R.	4,388,760
2. Saudi Arabia(2)	3,524,946	2. Saudi Arabia(2)	3,513,125	2. United States(1)	3,156,715
3. United States(1)	3,146,502	3. United States(1)	3,128,780	3. Saudi Arabia(2)	2,304,975
4. Iraq	920,124	4. Mexico(1)	843,880	4. Mexico	1,086,970
5. Venezuela	792,390	5. Venezuela	769,420	5. Iran	808,110
6. People's Republic of China	775,188	6. People's Republic of China	738,760	6. United Kingdom	772,705
7. Nigeria	753,228	7. United Kingdom	661,015	7. China	740,585
8. Mexico(1)	708,942	8. Indonesia	585,640	8. Venezuela	690,215
9. Libya	669,780	9. United Arab Emirates	547,500	9. Indonesia	488,735
10. United Arab Emirates	622,932	10. Nigeria	527,425	10. Nigeria	472,675
11. Iran	680,292	11. Iran	504,065	11. Canada	452,965
12. United Kingdom	592,554	12. Canada(1)	469,025	12. United Arab Emirates	443,110
13. Indonesia	576,816	13. Libya	415,005	13. Libya	422,670
14. Canada(1)	521,184	14. Iraq	362,445	14. Iraq	354,780
15. Kuwait(2)	508,374	15. Kuwait(2)	345,655	15. Algeria	259,150
16. Algeria(1)	373,320	16. Algeria	293,095	16. Kuwait(2)	244,915
17. Egypt	217,770	17. Egypt	218,270	17. Egypt	242,725
18. Neutral Zone	199,104	18. Norway	182,865	18. Norway	189,070
19. Norway	193,248	19. Argentina	181,040	19. Argentina	176,660
20. Brunei-Malaysia	189,588	20. Brunei-Malaysia	156,585	20. Brunei-Malaysia	167,900
TOTAL FREE WORLD	16,559,304	TOTAL FREE WORLD	15,181,445	TOTAL FREE WORLD	14,116,160
TOTAL WORLD	21,765,654	TOTAL WORLD	20,373,570	TOTAL WORLD	19,395,155

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: Central Intelligence Agency, International Energy Statistical Review

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WORLD CRUDE OIL PRODUCTION - TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1983
1. U.S.S.R.	4,363,940
2. United States(1)	3,170,999
3. Saudi Arabia (2)	1,776,455
4. Mexico	979,660
5. Iran	909,580
6. United Kingdom	839,135
7. China	769,005
8. Venezuela	653,350
9. Canada	529,250
10. Indonesia	505,525
11. Nigeria	452,965
12. United Arab Emirates	408,070
13. Libya	392,740
14. Iraq	336,530
15. Kuwait(2)	321,565
16. Algeria	255,135
17. Egypt	251,485
18. Norway	224,110
19. Brunei-Malaysia	190,895
20. Argentina	174,835
TOTAL FREE WORLD	13,988,260
TOTAL WORLD	19,274,555

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(1) Includes lease condensate
(2) Excludes Neutral Zone production

Source: U.S. - Energy Information Administration
Rest of World - Central Intelligence Agency

U.S. STRIPPER WELLS AND STRIPPER WELL PRODUCTION

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total[1] U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	392,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.9
1965	398,299	589,016	4.0	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.6	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392,191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7
1981	409,539	426,502	2.9	3,128,624	13.1
1982	416,493	441,951	2.9	3,156,715	14.0

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(1) Includes lease condensate

Source: National Stripper Well Survey
Total Crude Oil Production, Department of Energy

U.S. CRUDE OIL PRODUCTION(1) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524	7,329
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	187	559
Arizona	-	-	-	-	-	-	-	-	-	-	-	12	25	73
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329	30,117
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946	305,352
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440	47,469
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424	369
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,083	80,275	76,727	77,341
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554	12,054
Kansas	105,132	110,908	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543	113,453
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272	21,147
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666	400,832
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439	15,899
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620	51,673
Missouri	55	31	49	32	24	21	39	96	72	65	65	84	75	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857	30,240
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881	23,825
Nevada	-	-	-	-	-	-	-	33	64	64	44	40	32	27
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,893	94,759	98,515	105,692	107,380
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970	1,813
North Dakota	-	-	-	-	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824	21,992
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,880	4,353	4,785	5,478	6,260	5,978	5,405
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,851	202,817	215,862	214,661	200,699	198,090	192,913
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,170	6,009
South Dakota	-	-	-	-	-	-	-	37	30	32	54	58	151	281
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6	20
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978	927,479
Utah	-	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959	37,594
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6	2
Washington	-	-	-	-	-	-	-	-	-	-	5	4	1	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184	2,300
Wyoming	44,772	53,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050	133,910
Total	1,856,987	2,020,185	1,841,940	1,973,574	2,247,711	2,289,836	2,357,082	2,314,988	2,484,428	2,617,283	2,616,901	2,448,987	2,574,590	2,574,933
Daily Average	5,088	5,520	5,046	5,407	6,158	6,256	6,458	6,342	6,807	7,151	7,170	6,710	7,054	7,035

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IV
Table 4a

U.S. CRUDE OIL PRODUCTION[1] BY STATES
(Thousand of Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934	11,677
Alaska	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893	72,323
Arizona	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993	804
Arkansas	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519	16,016
California	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022	336,075
Colorado	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015	36,590
Florida	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897	32,695
Illinois	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874	30,669
Indiana	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130	5,312
Kansas	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744	66,227
Kentucky	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702	8,687
Louisiana	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827	831,524
Michigan	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990	14,614
Mississippi	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100	56,102
Missouri	72	55	53	65	73	97	75	65	67	66	66	60	60
Montana	30,906	31,648	30,870	30,647	32,778	35,380	34,959	48,460	43,954	37,879	34,599	33,904	34,620
Nebraska	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106	11,451	10,062	8,705	7,240
Nevada	154	141	118	255	209	307	279	271	223	149	113	100	96
New Mexico	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525	100,986
New York	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256	1,194	1,126	1,018	967
North Dakota	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624	20,235
Ohio	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358	8,796
Oklahoma	193,081	202,732	201,962	202,524	203,441	224,839	230,749	221,623	224,729	223,574	213,313	207,633	191,204
Pennsylvania	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441	3,282
South Dakota	233	169	215	247	219	239	211	187	158	160	233	219	275
Tennessee	17	14	16	10	11	7	7	6	32	309	398	198	201
Texas	939,191	943,328	977,835	989,525	1,057,706	1,056,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,685	1,294,671
Utah	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570	32,656
Virginia	2	3	3	6	4	1	3	3	1	1	1	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677	2,385
Wyoming	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011	141,914
Total	2,621,758	2,676,189	2,752,723	2,786,822	2,848,514	3,027,763	3,215,742	3,329,042	3,371,751	3,517,450	3,453,914	3,455,368	3,360,903
Daily Average	7,183	7,332	7,542	7,614	7,804	8,295	8,810	9,096	9,238	9,637	9,463	9,441	9,208

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IV
Table 4b

U.S. CRUDE OIL PRODUCTION[1] BY STATES
(Thousand of Barrels)

STATE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	13,323	13,477	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746
Alaska	70,603	69,834	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527
Arizona	740	635	519	427	418	472	406	357	335	237
Arkansas	16,527	16,133	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849
California	323,003	322,199	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688
Colorado	37,508	38,089	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050
Florida	36,351	41,877	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476
Illinois	27,553	26,067	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200
Indiana	4,919	4,632	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321
Kansas	61,691	59,106	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594
Kentucky	7,837	7,556	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886
Louisiana	737,324	650,840	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569
Michigan	18,021	24,420	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736
Mississippi	50,779	46,614	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455
Missouri	56	57	61	60	54	91	130	226	202	269
Montana	34,554	32,844	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225
Nebraska	6,611	6,120	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380
Nevada	129	115	143	661	1,156	1,235	880	700	613	810
New Mexico	98,695	95,063	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169
New York	896	875	857	824	852	855	824	841	834	831
North Dakota	19,697	20,452	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690
Ohio	9,088	9,578	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971
Oklahoma	177,785	163,123	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604
Pennsylvania	3,478	3,264	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282
South Dakota	494	472	447	632	869	846	765	973	1,158	1,172
Tennessee	769	682	598	820	593	614	743	918	1,132	1,056
Texas	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676
Utah	39,363	42,301	34,304	33,113	31,368	27,728	24,978	25,860	22,440	29,534
Virginia	3	3	3	2	2	4	10	13	49	65
Washington	-	-	-	-	-	-	-	-	-	
West Virginia	2,665	2,479	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628
Wyoming	139,997	135,943	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303
Total	3,202,585	3,056,779	2,976,180	3,009,265	3,178,216	3,121,310	3,146,365	3,128,624	3,156,715	3,170,999
Daily Average	8,774	8,374	8,132	8,245	8,707	8,552	8,597	8,572	8,649	8,688

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(1) Includes Lease Condensate

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1983: U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. AVERAGE CRUDE OIL PRODUCTION[1] PER WELL PER DAY BY STATE
(Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	55.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	170.8	138.9
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	7.1	6.8	6.6	6.2	6.0	6.0	5.7	6.1	7.5	7.4	6.7	6.9	6.6	6.6
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	8.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7
New York	.6	.6	.5	.5	.5	.5	.5	.4	.4	.4	.4	.2	.3	.3
North Dakota	-	-	-	-	-	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3
Ohio	.4	.5	.5	.5	.5	.5	.6	.7	.8	.9	1.0	1.2	1.0	.9
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9
Pennsylvania	.4	.4	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.2	.2
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	21.1	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3
Utah	-	-	-	-	-	-	-	-	-	-	75.7	182.7	180.1	137.6
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	.4	.5	.5	.5	.5	.5	.6	.6	.5	.5	.5	.5	.5	.5
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	42.9	45.4	42.0	34.1	12.0
Total	12.0	12.8	11.4	11.8	13.1	13.0	13.1	12.6	13.2	13.3	12.8	11.7	12.2	12.0

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	47.6	47.2	52.8	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5
Alaska	559.2	573.6	555.2	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4
Arizona	–	21.4	28.7	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5
Arkansas	12.6	12.4	12.6	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3
California	21.6	21.9	20.7	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4
Colorado	63.4	56.3	50.7	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2
Florida	–	104.4	110.5	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8
Illinois	6.6	6.9	6.8	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1
Indiana	5.8	5.8	5.6	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1
Kansas	7.6	7.0	6.4	6.2	6.1	6.1	5.8	5.6	5.4	5.3	5.0	4.8	4.4	4.1
Kentucky	2.5	2.5	2.9	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5
Louisiana	47.1	51.1	52.2	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3
Michigan	12.0	10.9	10.3	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4
Mississippi	50.7	56.8	61.3	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0
Missouri	–	1.4	1.4	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1
Montana	24.0	24.7	23.1	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8
Nebraska	38.9	37.6	34.3	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2
Nevada	–	96.6	80.8	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1
New Mexico	20.8	19.1	18.3	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8
New York	.2	.3	.3	.4	.4	.4	1.1	.9	.7	.6	.5	.5	.5	.5
North Dakota	41.4	39.7	37.9	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3
Ohio	.9	.9	1.1	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6
Oklahoma	6.7	6.9	6.8	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7
Pennsylvania	.2	.2	.2	.3	.3	.2	.3	.3	.3	.3	.3	.3	.3	.3
South Dakota	–	24.4	27.4	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7
Tennessee	–	1.1	1.1	.7	.8	.6	.6	.5	2.6	18.6	15.9	7.2	7.9	19.1
Texas	13.2	13.1	13.5	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7
Utah	114.0	103.3	108.6	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4
Virginia	–	1.6	1.5	2.3	1.6	.7	2.7	1.8	.5	.5	.9	–	–	5.5
Washington	–	–	–	–	–	–	–	–	–	–	–	–	–	–
West Virginia	.6	.7	.7	.7	.7	.8	.7	.7	.7	.7	.7	.6	.5	.5
Wyoming	50.6	48.1	52.1	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1
Other	13.4	–	–	–	–	–	–	–	–	–	–	–	–	–
Total	12.1	12.3	12.7	12.9	13.3	14.2	15.3	16.2	16.9	18.0	18.1	18.4	18.3	17.6

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1975	1976	1977	1978	1979	1980	1981
Alabama	62.1	64.8	79.1	85.0	80.3	90.1	81.9
Alaska	947.2	897.5	1,935.6	3,805.3	3,765.9	3,853.4	2,298.8
Arizona	65.7	51.6	41.8	36.4	37.0	33.6	27.9
Arkansas	6.1	6.7	7.2	7.1	6.5	6.1	6.1
California	21.7	21.3	22.3	21.9	22.1	21.9	22.4
Colorado	45.1	40.4	36.9	32.1	26.4	23.5	28.6
Florida	822.4	849.5	903.1	1,037.7	1,143.6	993.0	814.3
Illinois	3.0	3.1	3.0	2.7	2.5	2.5	2.5
Indiana	2.8	2.6	2.9	2.5	2.4	2.5	2.3
Kansas	3.9	3.8	3.7	3.6	3.6	3.6	4.3
Kentucky	1.5	1.5	1.3	1.1	1.1	1.1	1.2
Louisiana	64.0	61.4	61.5	60.3	54.5	50.5	48.6
Michigan	17.0	22.4	23.5	24.4	24.6	21.0	20.3
Mississippi	56.9	56.6	47.0	40.0	32.9	26.3	29.7
Missouri	1.0	1.0	0.9	0.9	1.2	1.4	1.5
Montana	28.3	27.4	27.0	24.8	23.2	22.2	21.3
Nebraska	14.5	13.6	12.2	11.3	11.0	10.5	9.8
Nevada	42.0	43.4	120.7	186.3	188.0	120.2	NA
New Mexico	19.3	18.2	16.9	14.4	11.2	11.2	12.0
New York	.5	.5	0.5	0.9	0.5	0.4	0.4
North Dakota	32.2	33.3	40.2	34.7	34.4	39.6	48.4
Ohio	1.6	1.6	1.7	1.7	1.7	1.7	1.7
Oklahoma	6.2	6.1	5.9	5.5	5.2	5.2	5.1
Pennsylvania	.3	.3	0.3	0.3	0.3	0.3	0.4
South Dakota	37.5	30.2	30.9	30.9	25.8	21.9	22.2
Tennessee	11.5	8.4	9.0	5.5	5.1	5.2	5.1
Texas	20.9	20.2	19.2	17.8	16.6	10.5	14.3
Utah	96.6	74.7	68.6	62.8	53.3	41.7	45.9
Virginia	1.6	1.2	1.0	1.2	1.8	3.6	NA
Washington	-	-	-	-	-	-	-
West Virginia	.5	.5	0.5	0.5	0.5	0.4	0.6
Wyoming	41.1	39.6	37.1	35.3	33.9	29.0	30.9
Other	-	-	-	-	-	-	-
Total	16.8	16.3	16.4	17.0	16.3	15.9	15.4

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(1) Includes Lease Condensate

Source: Department of Energy, Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annual 1981-Calculated by API, based on production from D.O.E. and producing wells from World Oil Magazine

BASIC PETROLEUM DATA BOOK

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Section V
Table 1

AVERAGE HOURLY EARNINGS-TOTAL MINING AND MANUFACTURING VS. PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING

(Annual Average)

		Petroleum and Natural Gas Extraction				
Year	Total Mining	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufac-turing	Petroleum Refining
1947	$1.47	N.A.	$1.40	N.A.	$1.22	$1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	$2.39	2.54	$2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94
1981	10.06	9.49	10.81	9.11	7.98	12.17
1982	10.82	10.32	11.94	9.78	8.50	13.30
1983	11.30	10.69	12.38	9.97	8.84	14.33

Source: U.S. Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 2

NUMBER OF EMPLOYEES
PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING
(Annual Average in Thousands)

	Petroleum and Natural Gas Extraction		
Year	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining
1947	164.0	N.A.	189.3
1948	173.6	N.A.	196.6
1949	173.1	N.A.	191.6
1950	166.8	N.A.	185.4
1951	169.1	N.A.	198.6
1952	177.2	N.A.	201.6
1953	181.3	N.A.	206.3
1954	184.7	N.A.	203.6
1955	189.0	N.A.	201.3
1956	192.3	N.A.	200.8
1957	194.5	N.A.	198.9
1958	192.4	135.0	190.4
1959	185.4	144.2	181.4
1960	178.2	131.1	177.2
1961	171.3	131.8	168.4
1962	167.6	130.4	160.5
1963	163.8	125.4	153.7
1964	160.4	130.7	149.6
1965	156.6	130.5	148.1
1966	152.5	129.2	148.2
1967	149.7	126.2	147.9
1968	148.1	127.5	150.1
1969	145.8	134.1	144.7
1970	144.2	125.9	153.7
1971	142.5	121.7	152.7
1972	142.7	125.5	152.3
1973	142.1	135.6	149.9
1974	148.5	156.0	155.4
1975	159.5	176.2	154.2
1976	165.0	195.3	157.1
1977	174.8	229.7	160.3
1978	178.1	239.0	163.0
1979	201.2	275.1	168.5
1980	218.3	329.1	154.2
1981	256.6	400.6	169.6
1982	288.6	413.0	169.0
1983	280.4	359.4	158.6

Source: U.S. Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 3

SOURCES OF CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Millions of dollars)

Year	Internal Funds	External Funds	Total Funds
1947	$ 2,221	$ 682	$ 2,903
1948	3,250	592	3,842
1949	2,971	641	3,612
1950	3,285	159	3,444
1951	3,847	316	4,163
1952	4,092	831	4,923
1953	4,591	520	5,111
1954	4,897	353	5,250
1955	5,429	520	5,949
1956	6,351	1,222	7,573
1957	6,536	1,211	7,747
1958	5,806	970	6,776
1959	6,211	241	6,452
1960	6,401	245	6,646
1961	6,892	649	7,541
1962	7,280	677	7,957
1963	7,710	925	8,635
1964	7,905	990	8,895
1965	8,681	1,196	9,877
1966	10,085	2,032	12,117
1967	10,682	2,791	13,473
1968	11,280	4,015	15,295
1969	11,715	2,998	14,713
1970	14,333	4,156	18,489
1971	15,132	5,059	20,191
1972	16,164	4,632	20,796
1973	23,211	4,786	27,997
1974	32,510	6,232	38,742
1975	23,931	10,129	34,060
1976	28,254	10,310	38,564
1977	33,427	8,678	42,105
1978	38,410	4,930	43,340
1979	62,828	8,568	71,396
1980	70,721	11,900	82,621
1981	64,930	16,585	81,515
1982	67,167	15,430	82,597

Source: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 4

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Autos and Trucks	20.7	25.4	30.2	32.5	17.6	18.7	19.4	18.0	29.8	14.6	16.4	9.1	16.9	16.9	13.2
Drugs Soaps, etc.	20.7	21.3	16.2	21.4	17.7	13.7	15.1	14.8	17.6	19.9	21.5	21.9	22.0	20.4	18.4
Office Equip.	26.7	24.3	18.4	19.3	16.9	14.3	13.2	14.7	16.7	17.5	18.0	13.7	14.4	14.2	16.1
Glass Products	17.6	15.5	19.8	24.4	15.2	14.6	14.9	16.2	20.6	17.7	15.6	11.9	16.7	13.4	11.1
Elect.Equip.& Electronics	19.9	20.3	17.3	22.5	16.0	14.8	14.9	13.9	13.1	11.8	13.9	12.4	14.4	11.4	10.0
Auto Parts	23.4	22.9	18.9	22.7	15.7	13.1	13.2	10.4	15.9	12.9	12.1	7.4	13.1	7.3	6.8
Chemical Prod.	17.2	16.9	17.1	21.4	16.3	13.5	13.2	14.4	17.5	15.5	14.0	11.1	14.7	12.4	11.8
Household Equip.	33.2	26.6	15.4	23.0	12.9	12.5	10.7	10.3	12.2	12.7	9.6	7.7	14.1	10.0	9.2
Aircraft and Space	-	2.9	8.2	14.3	9.1	17.9	20.1	27.1	24.3	21.4	20.0	14.1	9.0	6.6	4.4
Soft Drinks	22.6	17.9	16.5	15.6	12.6	12.0	12.6	12.4	14.3	14.3	14.5	14.4	17.1	16.8	15.6
Other Stove and Clay Prod.	17.8	18.2	13.7	18.5	14.9	12.5	11.8	13.2	16.5	16.0	13.2	11.9	14.6	12.1	11.1
Lumber	33.1	23.1	10.7	17.0	16.0	11.4	10.3	9.7	14.0	12.6	9.5	9.2	11.7	7.5	6.6
Paper and Allied Prod.	23.7	19.6	12.8	17.1	16.1	12.0	12.2	12.4	14.0	14.2	10.6	9.3	10.5	9.1	8.1
Paint and Allied Prod.	19.0	13.1	10.3	17.1	12.9	10.7	12.7	13.6	16.3	18.0	15.8	12.8	12.5	13.0	12.5
Banking	20.4	21.0	17.8	15.9	12.3	12.2	12.0	11.4	12.0	12.2	12.5	11.7	11.5	11.6	9.7
Machinery	17.0	18.6	12.4	14.2	14.9	14.1	12.9	11.7	11.6	15.2	13.7	7.9	9.8	9.9	8.9
Rubber and Allied Prod.	16.0	13.4	8.7	15.9	16.4	13.4	14.0	11.9	15.3	13.8	12.4	10.6	12.9	10.3	10.2
Printing and Publ.	19.9	14.3	14.7	14.5	11.8	11.0	10.5	10.9	13.0	13.8	14.0	11.3	12.8	13.9	11.9
Petroleum	15.9	21.6	13.6	15.1	16.7	14.5	14.7	13.8	14.1	14.6	13.7	9.9	10.0	10.3	10.4
Other Food Prod.	21.2	16.9	14.0	15.4	11.8	10.0	11.1	11.5	11.8	11.7	11.5	11.4	11.8	11.4	12.8
Other Metal Prod.	15.7	17.1	11.1	16.4	14.9	11.4	11.5	11.1	12.8	12.5	12.0	8.9	11.4	6.8	7.3
Brewing	26.4	18.4	22.1	15.1	11.6	10.8	10.8	8.2	8.7	7.7	7.4	6.8	7.8	7.7	9.5
Building,Heat,Plumb. Equip.	19.6	20.1	12.6	17.8	13.8	10.9	10.2	9.8	11.3	11.3	9.4	8.1	9.1	5.3	4.6
Dairy Prod.	15.2	13.0	15.5	13.9	11.0	10.4	11.2	12.4	12.1	12.4	11.9	11.9	11.8	11.3	11.0
Non Ferrous Metals	14.8	15.3	8.0	14.5	13.5	11.5	11.0	10.8	16.6	17.2	9.7	6.8	8.9	7.2	6.8
Furniture and Fixtures	17.1	18.3	10.9	18.7	13.1	10.1	9.8	9.5	12.9	14.2	7.8	8.6	10.5	7.9	7.1
Iron and Steel	11.3	13.9	11.6	15.3	12.3	8.8	11.6	9.4	15.2	13.9	13.2	8.2	8.4	7.8	6.4
Total Manufacturing	17.0	18.2	13.8	17.1	14.4	11.3	12.7	12.3	14.9	13.8	12.9	9.8	11.7	10.6	9.9
Total Mining	16.0	20.5	12.0	13.2	13.0	10.1	7.9	8.2	13.0	13.8	9.6	7.3	7.8	8.0	8.3
Total Trade	18.3	18.2	13.2	14.8	11.5	10.1	9.9	9.9	10.9	11.4	10.8	10.5	11.9	10.7	10.2

Source: First National City Bank

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Autos & Trucks	19.4	19.6	19.9	23.4	17.8	12.0	16.6	13.8	5.8	15.0	17.2	17.6	6.1	5.7
Drugs & Medicine	17.8	18.7	19.8	22.1	22.5	20.3	19.8	17.7	18.8	19.0	19.8	21.4	21.0	20.4
Soap, Cosmetics	17.0	16.9	17.6	16.8	17.9	19.4	18.9	18.6	18.7	19.3	20.2	20.2	17.9	18.0
Office Eqpmt., Computers	17.2	18.0	17.9	18.7	18.1	17.8	19.0	17.4	13.9	12.5	13.8	16.7	16.3	15.9
Glass Products	11.6	11.6	12.1	13.5	12.7	11.1	11.9	12.2	9.0	11.1	12.5	12.9	10.6	9.8
Electr.Eqpmt.& Electronics	11.3	10.7	11.3	14.8	16.7	15.4	14.1	13.0	10.1	10.7	13.6	15.3	13.1	12.7
Auto Parts	10.2	11.4	12.0	13.4	14.0	11.4	12.6	13.0	8.9	10.4	13.5	14.4	10.4	9.6
Chemical Products	12.3	13.2	14.7	15.4	14.6	11.4	11.7	11.4	9.5	9.7	11.3	15.2	18.8	15.8
Household Appliances	11.5	12.8	13.9	15.0	15.0	14.7	14.0	13.5	11.9	12.1	15.4	15.6	5.3	6.2
Aerospace	12.9	11.7	12.9	15.4	15.7	13.4	13.9	11.4	6.7	6.3	8.9	11.7	13.8	11.7
Soft Drinks	16.6	17.9	20.7	21.1	22.0	23.3	22.7	22.5	22.7	23.1	22.1	22.0	19.0	20.6
Other Stone & Clay Prod.	9.0	9.1	10.6	9.9	9.2	7.3	8.9	9.3	7.0	8.7	10.8	11.9	9.1	8.2
Lumber & Wood Prod.	7.6	8.1	10.9	11.5	11.0	9.4	14.1	15.2	10.2	11.2	12.6	20.8	15.9	10.0
Paper & Allied Prod.	9.3	9.2	10.3	10.5	11.8	9.5	10.7	10.3	7.4	5.6	8.8	14.6	18.3	12.7
Paint & Allied Prod.	11.6	12.0	14.4	14.1	14.3	11.6	11.5	10.2	6.2	8.1	10.6	10.3	11.7	9.0
Baking	9.9	11.0	11.3	11.9	13.9	15.7	13.4	7.9	11.0	12.8	11.8	9.4	12.0	17.0
Machinery	9.9	9.7	11.9	14.4	16.9	14.7	13.5	12.9	10.5	10.3	10.6	12.7	12.2	11.6
Rubber & Allied Prod.	9.4	9.9	11.5	11.8	12.8	10.8	12.7	11.1	7.6	9.8	11.6	11.5	9.7	7.8
Printing & Publishing	10.5	12.4	14.0	16.9	17.9	15.4	14.9	14.8	12.5	12.6	13.8	15.4	14.5	12.9
Petroleum Prod'n & Refng.	10.6	11.5	11.6	11.9	12.6	12.8	13.1	11.9	11.0	11.2	10.8	15.6	19.6	13.9
Building,Heat. Plumb.Equip.	6.3	6.4	8.2	10.6	12.0	11.3	11.3	8.5	7.0	8.4	12.1	11.6	14.2	12.3
Other Food Products	12.5	12.1	12.7	12.6	13.3	12.3	12.7	12.1	12.8	12.3	14.2	14.8	14.4	14.1
Other Metal Products	9.0	9.3	10.4	12.9	14.1	13.8	13.3	12.5	10.4	8.9	10.4	12.9	14.0	13.0
Brewing	8.9	9.1	10.1	11.1	13.4	12.2	13.2	13.2	16.0	15.8	14.8	13.1	12.3	10.3
Dairy Products	10.5	11.2	12.2	12.5	12.6	11.8	11.7	11.8	12.0	12.6	12.8	13.0	13.2	14.3
Non Ferrous Metals	7.1	7.1	9.0	11.8	15.7	11.4	11.1	12.5	10.6	5.0	7.1	11.2	15.1	7.4
Furniture & Fixtures	7.8	8.1	11.1	13.0	14.3	11.9	11.3	12.4	8.4	11.9	12.5	13.0	8.2	7.0
Iron & Steel	5.4	7.3	9.2	9.6	9.4	7.4	8.5	7.4	4.6	4.6	6.1	9.8	17.1	10.0
Total Manufacturing	10.9	11.6	12.7	13.9	14.2	12.6	13.3	12.4	10.8	10.8	12.1	14.9	15.2	12.6
Total Mining	8.6	9.1	10.4	12.2	13.9	16.2	15.0	12.6	8.5	8.5	10.7	16.6	24.5	16.1
Total Trade	10.3	10.4	12.1	13.2	13.7	13.2	14.1	13.5	11.7	11.7	11.8	12.7	13.5	13.0

Source: First National City Bank

Section V
Table 4b

NET INCOME AS A PERCENT OF NET WORTH: PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1976	1977	1978	1979	1980	1981(p)
Autos & Trucks	18.3	20.8	17.4	10.5	-13.6	-6.0
Drugs & Medicine	20.0	19.2	22.0	22.9	22.2	19.4
Soap, Cosmetics	18.3	19.7	20.9	19.9	19.7	18.1
Office Eqpmt., Computers	17.4	18.8	23.3	20.7	21.2	18.1
Glass Products	17.3	11.5	11.1	14.6	12.9	11.3
Elec.Eqpmt.,& Electronics	16.2	16.7	17.5	17.3	18.7	17.5
Auto Parts	15.3	16.4	17.4	18.2	11.9	16.2
Chemical Products	16.1	14.3	14.9	17.3	16.5	16.7
Household Appliances	17.4	19.4	16.8	16.6	14.3	13.6
Aerospace	13.6	17.4	17.0	21.8	17.7	12.7
Soft Drinks	22.4	22.3	22.3	22.3	20.9	23.0
Other Stone & Clay Prod.	10.6	12.2	17.2	14.5	5.5	10.4
Lumber & Wood Products	15.5	16.0	17.7	20.2	11.0	8.3
Paper & Allied Products	14.8	14.1	14.0	17.4	13.8	14.0
Paint & Allied Products	10.9	8.1	8.8	11.0	12.8	13.4
Baking	16.1	17.8	19.7	17.4	17.4	18.1
Machinery	13.6	15.0	16.5	18.3	14.3	14.4
Rubber & Allied Prod.	7.5	10.0	6.2	6.4	4.2	10.9
Printing & Publishing	13.9	16.8	21.2	19.4	18.5	19.0
Petroleum Prod'n. & Refing.	14.8	14.0	14.5	22.6	25.4	20.2
Building, Heating, Plumbing Equipment	21.0	20.4	21.8	26.0	22.4	18.3
Other Food Products	16.1	16.3	17.6	17.3	17.8	19.1
Other Metal Products	15.0	14.8	13.6	16.5	13.7	13.1
Brewing	11.5	10.5	10.1	12.5	16.0	15.9
Dairy Products	14.7	14.9	15.6	14.8	16.2	14.5
Non Ferrous Metals	8.5	8.0	9.4	18.6	18.5	10.5
Furniture & Fixtures	9.8	8.5	11.6	7.2	9.0	12.8
Iron & Steel	8.7	4.4	9.4	11.7	10.0	12.2
Total Manufacturing	15.0	14.9	15.9	18.4	16.5	15.7
Total Mining	16.5	8.5	8.2	19.8	19.1	19.2
Total Trade	14.7	15.0	15.3	15.7	13.8	13.6

(p) Preliminary

Source: First National City Bank

DOMESTIC AND FOREIGN NET INCOME OF A GROUP OF PETROLEUM COMPANIES

Year	NET INCOME (MILLIONS OF DOLLARS) U.S.	Foreign	Total
1960	$ 1,887	$ 1,581	$ 3,468
1961	1,958	1,719	3,677
1962	2,044	1,963	4,007
1963	2,392	2,149	4,541
1964	2,556	2,156	4,712
1965	2,927	2,164	5,091
1966	3,438	2,214	5,652
1967	3,727	2,421	6,148
1968	3,913	2,751	6,664
1969	3,774	2,928	6,702
1970	3,609	3,029	6,638
1971	3,372	3,753	7,125
1972	3,526	3,155	6,681
1973	4,008	7,396	11,404
1974	6,119	9,931	16,050
1975	5,623	5,530	11,513
1976	7,165	5,462	12,627
1977	7,420	6,565	13,985
1978	7,968	6,582	14,550
1979	12,237	18,383	30,620
1980	15,073	19,047	34,120
1981	15,916	12,537	28,453
1982	13,439	8,247	21,686

SOURCE: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 6

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES			GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS			COMBINED		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1947	2,825	1,225	4,050	250	70	320	3,075	1,295	4,370
1948	3,350	1,600	4,950	300	100	400	3,650	1,700	5,350
1949	3,000	1,925	4,925	325	100	425	3,325	2,025	5,350
1950	2,925	1,500	4,425	300	125	425	3,225	1,625	4,850
1951	3,625	1,700	5,325	400	150	550	4,025	1,850	5,875
1952	4,400	2,350	6,750	500	175	675	4,900	2,525	7,425
1953	5,025	2,550	7,575	575	175	750	5,600	2,725	8,325
1954	5,350	2,725	8,075	600	200	800	5,950	2,925	8,875
1955	5,600	2,950	8,500	625	250	875	6,225	3,200	9,425
1956	6,050	3,975	10,025	700	300	1,000	6,750	4,275	11,025
1957	6,400	5,000	11,400	700	375	1,075	7,100	5,375	12,475
1958	5,300	5,400	10,700	650	400	1,050	5,950	5,800	11,750
1959	5,272	5,775	11,050	650	470	1,120	5,925	6,245	12,170
1960	5,175	5,350	10,525	625	460	1,085	5,800	5,810	11,610
1961	5,100	5,325	10,425	600	420	1,020	5,700	5,745	11,445
1962	5,725	5,385	11,110	575	425	1,000	6,300	5,800	12,100
1963	5,475	5,675	11,150	600	450	1,050	6,075	6,125	12,200
1964	6,100	6,175	12,275	650	480	1,130	6,750	6,655	13,405
1965	6,375	6,800	13,175	610	570	1,180	6,985	7,370	14,355
1966	7,125	7,550	14,675	650	460	1,110	7,775	8,010	15,785
1967	7,650	7,925	15,575	615	575	1,190	8,265	8,500	16,765
1968	8,350	9,550	17,900	715	615	1,330	9,065	10,165	19,230
1969	8,175	10,200	18,375	725	655	1,380	8,900	10,855	19,755
1970	8,225	11,900	20,125	665	675	1,340	8,890	12,575	21,465
1971	7,250	14,550	21,800	715	680	1,395	7,965	15,230	23,195
1972	9,050	15,900	24,950	740	800	1,540	9,790	16,700	26,490
1973	10,640	19,355	29,995	850	850	1,700	11,490	20,205	31,695
1974	16,625	27,075	43,700	1,130	1,055	2,185	17,755	28,130	45,885

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Section V
Table 6a

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

Year	CAPITAL EXPENDITURES			GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS			COMBINED		
	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1975	17,725	31,900	49,625	1,195	1,130	2,325	18,920	33,030	51,950
1976	22,085	34,640	56,725	1,375	1,160	2,535	23,460	35,800	59,260
1977	22,400	39,180	61,580	1,645	1,750	3,395	24,045	40,930	64,975
1978	24,475	43,900	68,375	1,975	2,060	4,035	26,450	45,960	72,410
1979	32,200	49,425	81,625	2,600	2,725	5,325	34,800	52,150	86,950
1980	42,900	62,625	105,525	3,850	3,775	7,625	46,750	66,400	113,150
1981	63,000	75,600	138,600	5,700	4,900	10,600	68,700	80,500	149,200
1982	63,550	75,875	139,425	4,500	5,100	9,600	68,050	80,975	149,025

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other	Total
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,234
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860
1971	14,389	5,059	(3)	743	20,191	12,511	3,836	2,029	972	19,348
1972	14,377	4,632	(3)	1,787	20,796	12,717	3,774	3,258	751	20,500
1973	20,623	4,786	(3)	2,588	27,997	14,247	4,056	4,023	381	22,707
1974	28,165	6,232	(3)	4,345	38,742	22,270	4,681	4,262	894	32,107

(3) Included in Long Term Debt Issued.
(4) Includes preferred and common stock retired.

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

Section V
Table 7a

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other(1)	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other(2)	Total
1975	22,714	10,129	(3)	1,217	34,060	24,205	4,819	5,316	1,740	36,080
1976	25,828	10,310	(3)	2,426	38,564	26,036	5,208	5,230	829	37,303
1977	29,003	8,678	(3)	4,424	42,105	27,156	5,995	5,954	1,508	40,613
1978	33,184	4,930	(3)	5,226	43,340	28,770	6,781	6,885	1,562	43,998
1979	55,844	8,568	(3)	6,984	71,396	42,229	8,127	8,249	2,473	61,078
1980	66,859	11,900	(3)	5,862	82,821	53,776	10,305	9,728	2,613	76,422
1981	63,207	16,585	(3)	1,723	81,515	63,976	11,068	10,020	4,867	89,931
1982	60,884	14,980	450	6,283	82,597	64,538	11,265	9,281	3,731	90,019

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(1) Other includes sales of assets and other transactions.
(2) Other includes investments and advancements.
(3) Included in Long Term Debt Issued.
(4) Includes preferred and common stock retired.

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY

(Millions of Dollars)

Year	PRODUCTION		TRANSPORTATION		REFINERIES & CHEMICAL PLANTS	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1947	1,750	475	295	310	400	225
1948	2,100	685	310	255	600	405
1949	2,000	770	250	405	420	475
1950	2,100	475	215	430	275	375
1951	2,650	575	285	410	325	400
1952	3,200	890	385	505	470	490
1953	3,525	890	425	610	675	620
1954	3,800	970	325	740	800	585
1955	4,100	1,110	225	655	835	580
1956	4,475	1,725	225	775	825	725
1957	4,525	2,180	345	1,060	950	980
1958	3,650	1,925	350	1,520	725	1,045
1959	3,850	2,030	260	1,720	525	1,020
1960	3,735	1,875	265	1,395	560	1,030
1961	3,525	1,855	230	1,140	685	1,265
1962	4,000	1,665	340	1,205	660	1,415
1963	3,650	1,520	415	1,155	600	1,765
1964	3,960	1,605	340	1,570	675	1,515
1965	3,760	2,025	265	1,510	1,125	1,665
1966	3,770	1,870	300	1,755	1,575	2,435
1967	4,025	1,975	400	1,740	1,600	2,550
1968	4,925	2,535	475	2,280	1,450	2,980
1969	4,750	2,790	400	2,600	1,525	2,995

Year	MARKETING		OTHER CAPITAL EXPENDITURES		TOTAL CAPITAL EXPENDITURES	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1947	300	175	80	40	2,825	1,225
1948	225	165	115	90	3,350	1,600
1949	240	215	90	60	3,000	1,925
1950	275	180	60	40	2,925	1,500
1951	300	245	65	70	3,625	1,700
1952	280	375	65	90	4,400	2,350
1953	325	360	75	70	5,025	2,550
1954	350	385	75	45	5,350	2,725
1955	375	535	65	70	5,600	2,950
1956	450	685	75	65	6,050	3,975
1957	475	710	105	70	6,400	5,000
1958	400	745	175	165	5,300	5,400
1959	450	885	190	120	5,275	5,775
1960	475	950	140	100	5,175	5,350
1961	525	930	135	135	5,100	5,325
1962	600	985	125	105	5,725	5,375
1963	650	1,085	160	150	5,475	5,675
1964	850	1,340	275	145	6,100	6,175
1965	1,000	1,430	225	170	6,375	6,800
1966	1,100	1,310	380	180	7,125	7,550
1967	1,250	1,455	375	205	7,650	7,925
1968	1,150	1,515	350	240	8,350	9,550
1969	1,250	1,555	250	260	8,175	10,200

Source: The Chase Manhattan Bank

Section V
Table 8a

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY

(Millions of Dollars)

Year	PRODUCTION		TRANSPORTATION		REFINERIES & CHEMICAL PLANTS	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1970	4,335	2,895	550	2,915	1,625	3,900
1971	3,385	3,830	675	3,435	1,550	4,740
1972	5,915	4,190	425	4,580	1,350	4,955
1973	7,440	5,485	550	7,230	1,475	4,565
1974	11,450	8,085	1,660	9,760	2,600	7,115
1975	9,380	9,875	3,725	11,510	3,600	8,270
1976	13,460	12,315	3,900	12,350	3,775	7,635
1977	15,180	17,280	2,300	8,060	3,700	10,965
1978	17,650	20,055	1,350	7,380	4,050	13,275
1979	24,600	24,465	1,450	6,575	4,625	14,385
1980	33,100	33,775	2,150	7,725	5,650	16,125
1981	51,700	41,675	1,725	10,300	7,250	18,325
1982	52,275	43,400	1,300	7,650	7,550	19,525

Year	MARKETING		OTHER CAPITAL EXPENDITURES		TOTAL CAPITAL EXPENDITURES	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1970	1,450	1,770	265	420	8,225	11,900
1971	1,350	2,030	290	515	7,250	14,550
1972	1,100	1,725	260	450	9,050	15,900
1973	850	1,630	325	445	10,640	19,355
1974	650	1,565	325	550	16,625	27,075
1975	650	1,510	370	735	17,725	31,900
1976	625	1,555	325	785	22,085	34,640
1977	775	1,895	445	980	22,400	39,180
1978	950	2,290	475	980	24,475	43,900
1979	975	2,775	550	1,225	32,200	49,425
1980	1,300	3,750	700	1,250	42,900	62,625
1981	1,425	3,775	900	1,525	63,000	75,600
1982	1,400	3,700	1,025	1,600	63,550	75,875

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry

Section V
Table 9

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES

(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1947	$ 1,950	$ 991	$ 959
1948	2,300	1,318	982
1949	2,215	1,217	998
1950	2,325	1,157	1,168
1951	2,975	1,620	1,355
1952	3,625	1,855	1,770
1953	3,975	2,014	1,961
1954	4,300	2,180	2,120
1955	4,675	2,383	2,292
1956	5,075	2,621	2,454
1957	5,100	2,673	2,427
1958	4,225	2,241	1,984
1959	4,350	2,455	1,895
1960	4,200	2,412	1,788
1961	4,000	2,417	1,583
1962	4,425	2,848	1,577
1963	4,125	2,452	1,673
1964	4,450	2,817	1,633
1965	4,210	2,847	1,363
1966	4,250	2,990	1,260
1967	4,365	3,212	1,153
1968	5,390	4,087	1,303
1969	5,250	3,768	1,482
1970	4,775	3,119	1,656
1971	3,900	2,740	1,160
1972	6,480	4,225	2,255
1973	8,140	5,275	2,865
1974	12,355	8,550	3,805
1975	10,250	7,007	3,243
1976	14,510	8,711	5,799
1977	16,500	10,159	6,341
1978	19,300	11,378	7,922
1979	26,750	20,616	6,134

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES
CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES
(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1980	36,200	25,053	11,147
1981	56,475	32,765	23,710
1982	55,400	30,902	24,498

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

Section V
Table 10

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION, DEVELOPMENT AND PRODUCTION, MILLION DOLLARS(1)

	1973	1974	1975	1976	1977	1978	1979	1980	1981
Exploration Expenditures									
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2	8,678.6	13,545.7
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2.579.5	2,885.4	7,036.5	7,899.2	11,188.2
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5	294.7	376.2
Geological and geophysical	399.5	567.6	652.8	692.3	833.3	1,028.7	1,218.2	1,871.1	2,823.0
Lease rental	150.7	177.8	204.7	206.7	245.8	285.3	311.6	429.1	600.4
Test Hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0	28.0	34.2
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5	757.0	999.0
General and administrative	203.6	290.9	341.7	404.8	413.5	488.8	661.7	892.8	1,107.5
TOTAL EXPLORATION(3)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2	20,830.8	30,674.2
Development Expenditures									
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5	10,193.4	16,107.5
Lease equipment	572.2	824.1	1,499.6	1,486.8	1,607.9	2,175.0	2,146.0	3,572.8	4,760.3
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3	3,414.6	972.6
Improved recovery programs	352.5	625.4	928.9	378.4	461.4	639.3	528.3	941.2	1,458.2
Other, incl. direct overhead	(2)	(2)	(2)	978.9	672.3	467.5	544.3	712.5	801.6
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2	744.4	915.6
TOTAL DEVELOPMENT(3)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6	19,578.9	25,015.7
Producing Expenditures									
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,507.4	5,277.9	6,152.2	7,295.3	9,461.9	13,505.1
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4	4,564.9	6,638.6
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1.181.3	1,709.8	2,244.8
Other indirect expenses	193.5	252.1	358.0	369.1	435.6	393.6	538.6	6,508.7	20,557.5
TOTAL PRODUCTION(3)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6	22,245.2	42,945.8
TOTAL EXPENDITURES(3)	12,694.2	18,706.1	18,558.7	22,558.7	25,725.1	30,373.2	44,686.4	62,655.0	98,635.7

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(1) Data not available prior to 1973
(2) Included in improved recovery programs before 1976
(3) Totals dc not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas

Section V
Table 10a

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION DEVELOPMENT AND PRODUCTION, MILLION DOLLARS (1)

	1982
Exploration Expenditures	
Drilling and equipping wells	12,935.8
Acquiring undeveloped acreage	8,163.3
Land dept. leasing and scouting	458.0
Geological and geophysical	2,997.5
Lease rental	643.7
Test Hole contributions	47.2
Other, incl. direct overhead	1,192.0
General and administrative	1,420.8
TOTAL EXPLORATION (3)	27,858.3
Development Expenditures	
Drilling and equipping wells	15,578.0
Lease equipment	5,134.6
Acquiring producing acreage	1,511.5
Improved recovery programs	1,943.8
Other, incl. direct overhead	740.2
General and administrative	950.7
TOTAL DEVELOPMENT (3)	25,858.8
Producing Expenditures	
Direct operating expenditures	14,405.3
Taxes, excl. income tax	14,008.3
General and administrative	3,047.8
Other indirect expenses	6,605.8
TOTAL PRODUCTION (3)	38,067.2
TOTAL EXPENDITURES (3)	91,784.3

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(1) Data not available prior to 1973

(3) Totals do not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas

Section V
Table 11

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S.(1)

(Millions of Dollars)

	YEAR																
	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL EXPENDITURES																	
1. Air..............	$125	$167	$187	$231	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$2,184	$2,311	$2,553
2. Water............	146	191	205	224	303	415	379	402	530	629	822	950	884	1,001	1,299	1,786	1,705
3. Land and other...	-	-	-	-	60	101	91	100	150	456	336	383	194	203	357	516	551
TOTAL............	$271	$358	$392	$455	$683	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$3,840	$4,613	$4,809
CAPITAL EXPENDITURES																	
1. Air..............	$69	$100	$112	$145	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$728	$711	$932
2. Water............	79	114	128	136	163	224	184	194	271	356	411	434	340	394	527	804	745
3. Land and other...	-	-	-	-	34	57	51	52	97	396	269	184	89	92	183	273	282
TOTAL............	$148	$214	$240	$281	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$1,438	$1,788	$1,959
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES																	
1. Air..............	$43	$50	$53	$62	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$1,392	$1,538	$1,554
2. Water............	57	66	75	84	136	185	187	201	249	262	401	502	532	594	754	960	933
3. Land and other...	-	-	-	-	24	41	37	43	50	55	63	197	101	106	165	231	248
TOTAL............	$100	$116	$128	$146	$268	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$2,311	$2,729	$2,735
RESEARCH AND DEVELOPMENT EXPENDITURES																	
1. Air..............	$13	$17	$22	$24	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$64	$62	$67
2. Water............	10	11	2	4	4	6	8	7	10	11	10	14	12	13	18	22	27
3. Land and other...	-	-	-	-	2	3	3	5	3	5	4	2	4	5	9	12	21
TOTAL............	$23	$28	$24	$28	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$91	$96	$115

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(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry 1971-1980

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S.(1)

(Millions of Dollars)

	YEAR
	1983
	TOTAL EXPENDITURES
1. Air	$2,014
2. Water	1,552
3. Land and other	439
TOTAL	4,005
	CAPITAL EXPENDITURES
1. Air	$497
2. Water	627
3. Land and other	178
TOTAL	1,302
	ADMINISTRATIVE, OPERATING AND MAINTENANCE EXPENDITURES
1. Air	$1,457
2. Water	901
3. Land and other	243
TOTAL	2,601
	RESEARCH AND DEVELOPMENT EXPENDITURES
1. Air	$60
2. Water	24
3. Land and other	18
TOTAL	102

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(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry

BASIC PETROLEUM DATA BOOK

SECTION VI. PRICES

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Table 2. Average Annual Wellhead Price of United States Natural Gas, Current and Constant 1967 Cents

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Section VI
Table 1

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES CRUDE OIL
CURRENT AND CONSTANT 1967 DOLLARS
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(1) (1967 = 100)	Price in 1967 Constant Dollars
1947	$1.93	76.5	$2.52
1948	2.60	82.8	3.14
1949	2.54	78.7	3.23
1950	2.51	81.8	3.07
1951	2.53	91.1	2.78
1952	2.53	88.6	2.86
1953	2.68	87.4	3.07
1954	2.78	87.6	3.17
1955	2.77	87.8	3.15
1956	2.79	90.7	3.08
1957	3.09	93.3	3.31
1958	3.01	94.6	3.18
1959	2.90	94.8	3.06
1960	2.88	94.9	3.03
1961	2.89	94.5	3.06
1962	2.90	94.8	3.06
1963	2.89	94.5	3.06
1964	2.88	94.7	3.04
1965	2.86	96.6	2.96
1966	2.88	99.8	2.89
1967	2.92	100.0	2.92
1968	2.94	102.5	2.87
1969	3.09	106.5	2.90
1970	3.18	110.4	2.88
1971	3.39	113.9	2.98
1972	3.39	119.1	2.85
1973	3.89	134.7	2.89
1974	6.74	160.1	4.21
1975	7.56	174.9	4.32
1976	8.14	182.9	4.45
1977	8.57	194.2	4.41
1978	8.96	209.3	4.28
1979	12.51	235.6	5.31
1980	21.59	268.7	8.03
1981	31.77	293.4	10.83
1982	28.52	299.3	9.53
1983	26.19	303.1	8.64

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(1) For 1976 and prior years figures are for Wholesale Price Index

Source: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

Section VI
Table 2

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES NATURAL GAS
CURRENT AND CONSTANT 1967 CENTS
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index(2) All Commodities (1967 = 100)	Price in 1967 Constant Cents
1947	6.0	76.5	7.8
1948	6.5	82.8	7.9
1949	6.3	78.7	8.0
1950	6.5	81.8	7.9
1951	7.3	91.1	8.0
1952	7.8	88.6	8.8
1953	9.2	87.4	10.5
1954	10.1	87.6	11.5
1955	10.4	87.8	11.8
1956	10.8	90.7	11.9
1957	11.3	93.3	12.1
1958	11.9	94.6	12.6
1959	12.9	94.8	13.6
1960	14.0	94.9	14.8
1961	15.1	94.5	16.0
1962	15.5	94.8	16.4
1963	15.8	94.5	16.7
1964	15.4(1)	94.7	16.3
1965	15.6	96.6	16.1
1966	15.7	99.8	15.7
1967	16.0	100.0	16.0
1968	16.4	102.5	16.0
1969	16.7	106.5	15.7
1970	17.1	110.4	15.5
1971	18.2	113.9	16.0
1972	18.6	119.1	15.6
1973	21.6	134.7	16.0
1974	30.4	160.1	19.0
1975	44.5	174.9	25.4
1976	58.0	182.9	31.7
1977	79.0	194.2	40.7
1978	90.5	209.3	43.2
1979	117.8	235.6	50.0
1980	159.0	268.7	59.2
1981	198.0	293.4	67.5
1982	243.0	299.3	81.2
1983	260.0	303.1	85.8

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(1) For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i. For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.

(2) For 1976 and prior years, figures are for Wholesale Price Index.

Source: Current Price, U.S. Energy Information Administration.
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

REFINER ACQUISITION COST OF CRUDE OIL
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1968(1)	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99

(1) Not available prior to 1968.

SOURCE: U.S. Department of Energy: Annual Energy Review and Monthly Energy Review.

Section VI
Table 4

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM
(1967 = 100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1947	54.9	N.A.	N.A.	N.A.
1948	59.5	N.A.	N.A.	N.A.
1949	62.9	N.A.	N.A.	N.A.
1950	64.3	N.A.	N.A.	N.A.
1951	70.8	N.A.	N.A.	N.A.
1952	70.9	N.A.	N.A.	N.A.
1953	73.9	N.A.	N.A.	N.A.
1954	76.5	76.0	69.2	66.0
1955	79.7	80.6	72.8	70.4
1956	84.7	91.9	77.7	77.7
1957	90.5	102.2	86.2	87.9
1958	91.0	105.5	89.8	91.6
1959	91.1	105.1	91.6	93.4
1960	91.2	104.1	91.6	93.4
1961	92.5	102.9	89.5	91.3
1962	93.8	103.5	88.0	89.7
1963	93.3	105.9	88.8	90.6
1964	94.8	103.6	91.9	93.4
1965	95.2	97.9	96.2	97.9
1966	96.5	97.9	96.2	97.9
1967	100.0	100.0	100.0	100.0
1968	106.4	104.0	101.5	102.5
1969	112.7	109.2	104.5	106.4
1970	118.7	113.2	109.1	111.2
1971	122.6	124.7	120.7	122.7
1972	127.3	133.7	128.4	131.1
1973	133.2	139.1	133.2	136.3
1974	157.8	189.8	170.7	181.3

N.A. Not available

Source: U.S. Bureau of Labor Statistics, Wholesale Price Index

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM
(1967 = 100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1975	196.3	226.9	211.5	220.1
1976	217.7	234.6	223.1	239.2
1977	236.6	260.5	244.3	270.0
1978	261.6	296.6	271.6	299.8
1979	289.6	303.4	285.2	316.9
1980	335.5	336.2	326.9	366.9
1981	401.0	394.0	407.6	501.7
1982	439.6	416.8	451.9	584.0
1983	427.9	406.3	406.1	458.0

Source: U.S. Bureau of Labor Statistics, Producer Price Index

Section VI
Table 5

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation
		Cents per Gallon				Index: 1967 = 100		
1947	16.93	6.18	23.11	66.9	70.6	61.1	78.2	68.7
1948	19.54	6.34	25.88	72.1	76.6	65.1	83.3	72.2
1949	20.27	6.52	26.79	71.4	73.5	68.0	80.1	74.9
1950	20.08	6.68	26.76	72.1	74.5	70.4	79.0	74.4
1951	20.31	6.84	27.15	77.8	82.8	73.2	86.1	76.6
1952	20.04	7.32	27.36	79.5	84.3	76.2	85.3	76.9
1953	21.28	7.41	28.69	80.1	83.0	80.3	84.6	77.7
1954	21.56	7.48	29.04	80.5	82.8	83.2	84.5	76.9
1955	21.42	7.65	29.07	80.2	81.6	84.3	84.1	76.7
1956	21.57	8.36	29.93	81.4	82.2	85.9	85.8	77.8
1957	22.11	8.85	30.96	84.3	84.9	87.5	87.3	80.7
1958	21.47	8.91	30.38	86.6	88.5	89.1	87.5	83.9
1959	21.18	9.31	30.49	87.3	87.1	90.4	88.2	85.3
1960	20.99	10.14	31.13	88.7	88.0	91.7	89.6	87.3
1961	20.53	10.23	30.76	89.6	89.1	92.9	90.4	89.3
1962	20.36	10.28	30.64	90.6	89.9	94.0	90.9	91.3
1963	20.11	10.31	30.42	91.7	91.2	95.0	91.9	92.8
1964	19.98	10.37	30.35	92.9	92.4	95.9	92.7	95.0
1965	20.70	10.45	31.15	94.5	94.4	96.9	93.7	95.9
1966	21.57	10.51	32.08	97.2	99.1	98.2	96.1	97.5
1967	22.55	10.61	33.16	100.0	100.0	100.0	100.0	100.0
1968	22.93	10.78	33.71	104.2	103.6	102.4	105.4	104.7
1969	23.85	10.99	34.84	109.8	108.9	105.7	111.5	108.7
1970	24.55	11.14	35.69	116.3	114.9	110.1	116.1	113.4
1971	25.20	11.23	36.43	121.3	118.4	115.2	119.8	119.3
1972	24.46	11.67	36.13	125.3	123.5	119.2	122.3	122.8
1973	26.88	11.94	38.82	133.1	141.4	124.3	126.8	125.9
1974	40.41	12.00	52.41	147.7	161.7	130.6	136.2	133.8

Sources: Retail Price of Regular Grade Gasoline, Platt's Oil Price Handbook and Oilmanac.
Price Indexes, U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 5a

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation
		Cents per Gallon				Index: 1967 = 100		
1975	45.44	11.77	57.22	161.2	175.4	137.3	142.3	144.4
1976	47.44	12.03	59.47	170.5	180.8	144.7	147.6	151.2
1977	50.70	12.37	63.07	181.5	192.2	153.3	154.2	157.9
1978	53.09	12.62	65.71	195.4(1)	211.4	164.0	159.6	176.6
1979	74.33	13.46	87.79	217.4	234.5	176.0	166.6	188.5
1980	107.35	14.37	121.72	246.8	254.6	191.6	178.4	205.3
1981	N.A.	N.A.	131.10	272.3	274.6	208.2	186.9	221.4
1982	N.A.	N.A.	122.20	289.1	285.7	224.0	191.8	235.8
1983	95.36	20.34	115.70	298.4	291.7	236.9	196.5	246.0

(1) Beginning in July, 1978, the CPI was given in two forms, CPI-U & CPI-W. The index used above is the CPI-U.

(2) Represented "Reading and Recreation" prior to July 1978.

N.A. Not available

Source: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-80 retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
1981-1983 — retail price of regular grade gasoline, Bureau of Labor Statistics
Price indexes, U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 6

U.S. ANNUAL AVERAGE RETAIL PRICE OF
#2 HOME HEATING OIL

Year	Cost per Gallon(1) (current cents)	Consumer Price Index (1967 = 100)	Cost Per Gallon (1967 constant cents)
1956(2)	15.21	81.4	18.69
1957	15.98	84.3	18.96
1958	15.07	86.6	17.40
1959	15.29	87.3	17.51
1960	15.02	88.7	16.93
1961	15.62	89.6	17.43
1962	15.62	90.6	17.24
1963	15.97	91.7	17.42
1964	16.06	92.9	17.29
1965	16.04	94.5	16.97
1966	16.43	97.2	16.90
1967	16.91	100.0	16.91
1968	17.44	104.2	16.74
1969	17.82	109.8	16.23
1970	18.48	116.3	15.89
1971	19.63	121.3	16.18
1972	19.72	125.3	15.74
1973	22.75	133.1	17.09
1974	36.01	147.7	24.38
1975	38.98	161.2	24.18
1976	41.80	170.5	24.52
1977	47.37	181.5	26.10
1978	50.80(e)	195.4	26.00
1979	72.80	217.4	33.49
1980	100.97	246.8	40.91
1981	124.66	272.4	45.76
1982	120.86	289.1	41.81
1983	110.12	298.4	36.90

(e) Estimate
(1) Includes all applicable taxes
(2) Data prior to 1956 is not available on a comparable basis

Source: U.S. Department of Labor, Bureau of Labor Statistics
BLS Monthly prices averaged by API to derive annual average price

Section VI
Table 7

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

Year	VALUE (Thousand dollars)		PRODUCTION (Trillion BTU)		PRICE AT WELLHEAD (Cents per million BTU)		PRICE AT WELLHEAD (1967 constant cents per million BTU)	
	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1947	$3,577,890	$274,709	10,771	5,012	33.2	5.5	43.4	7.2
1948	5,245,080	333,173	11,717	5,615	44.8	5.9	54.1	7.1
1949	4,674,770	344,034	10,683	5,911	43.8	5.8	55.7	7.4
1950	4,963,380	408,521	11,449	6,841	43.4	6.0	53.1	7.3
1951	5,690,410	542,964	13,037	8,106	43.6	6.7	47.9	7.4
1952	5,785,230	623,649	13,282	8,705	43.6	7.2	49.2	8.1
1953	6,327,100	774,966	13,671	9,116	46.3	8.5	53.0	9.7
1954	6,424,930	882,501	13,427	9,488	47.9	9.3	54.7	10.6
1955	6,870,380	978,357	14,445	10,532	47.6	9.3	54.2	10.6
1956	7,296,760	1,083,812	15,344	11,252	47.6	9.6	52.5	10.6
1957	8,079,259	1,201,759	15,346	11,885	52.6	10.1	56.4	10.8
1958	7,379,973	1,317,521	14,154	12,244	52.1	10.8	55.1	11.4
1959	7,473,336	1,556,800	14,662	13,361	51.0	11.7	53.8	12.3
1960	7,420,181	1,789,970	14,664	14,135	50.6	12.7	53.3	13.4
1961	7,565,582	1,996,241	15,185	14,691	49.8	13.6	52.7	14.4
1962	7,774,051	2,145,301	15,495	15,365	50.2	14.0	53.0	14.8
1963	7,965,743	2,328,030	15,741	16,271	50.6	14.3	53.5	15.1
1964	8,017,078	2,387,689	15,691	17,138	51.1	13.9	54.0	14.7
1965	8,158,298	2,494,542	15,930	17,652	51.2	14.1	53.0	14.6
1966	8,726,423	2,702,759	16,925	18,984	51.6	14.2	51.7	14.2
1967	9,375,727	2,898,741	18,100	20,087	51.8	14.4	51.8	14.4
1968	9,794,826	3,168,688	18,593	21,548	52.7	14.7	51.4	14.3
1969	10,426,680	3,455,615	18,886	22,838	55.2	15.1	51.8	14.2
1970	11,173,726	3,745,680	20,401	24,154	54.8	15.5	49.6	14.0
1971	11,692,998	4,085,482	20,033	24,805	58.4	16.5	51.3	14.5
1972	11,706,510	4,180,462	20,041	24,792	58.4	16.9	49.0	14.2
1973	13,057,905	4,894,072	19,493	24,746	67.0	19.8	49.7	14.7
1974	21,580,549	6,573,402	18,575	23,689	116.2	27.7	72.6	17.3

Sources: Dollar value and production, U.S. Bureau of Mines
U.S. Bureau of Labor Statistics, Wholesale Price Index
Price at wellhead computed by the American Petroleum Institute

Section VI
Table 7a

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

	VALUE (Thousand dollars)		PRODUCTION (Trillion BTU)		PRICE AT WELLHEAD (Cents per million BTU)		PRICE AT WELLHEAD (1967 constant cents per million BTU)	
Year	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1975	$23,116,059	$ 8,945,062	17,729	20,531	130.4	43.6	74.5	24.9
1976	24,229,540	11,571,776	17,262	20,371	140.4	56.8	76.7	31.0
1977	25,790,722	15,824,954	17,454	20,025	147.8	77.4	76.1	39.9
1978	28,477,824	18,084,914	18,420	20,393	154.4	88.7	73.8	42.4
1979	39,051,332	24,113,634	18,064	20,901	216.7	115.4	92.0	49.0
1980	65,722,016	32,043,704	18,249	20,482	360.2	156.4	134.1	58.2
1981	99,396,384(1)	39,551,253	18,147	20,255	547.8	190.3	186.7	64.9
1982	90,029,512(1)	45,496,765	18,309	18,797	491.7	242.0	164.3	80.9
1983	82,745,734(1)	41,846,600	18,325	16,419	451.5	254.9	149.0	84.1

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(1) Estimate computed by API based on wellhead price times production.

Sources: Dollar value and production, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Price at wellhead computed by the American Petroleum Institute

Section VI
Table 8

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	$2.90
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	$1.58	2.20
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	$1.82	$2.48	$2.48	$2.46	$2.48	$2.46	$2.60	$2.73	$2.71	$2.69	$2.92	$2.82	$2.77	$2.77
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1.94	2.58	2.58	2.52	2.47	2.25	2.18	2.20	2.26	2.58	2.70	2.65	2.56	2.41
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85
New York	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64
North Dakota	-	-	-	-	-	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96
Utah	-	-	-	-	-	-	-	-	-	-	2.27	2.99	2.86	2.74
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51
Other	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.91	2.93	2.94	2.45
Total	1.93	2.60	2.54	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90	2.88

Source: U.S. Bureau of Mines. Annual Petroleum Statements

Section VI
Table 8a

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	$2.75	$2.59	$2.59	$2.60	$2.61	$2.60	$2.65	$2.67	$2.70	$2.84	$3.00	$3.07	$3.58	$8.54	$10.13	$10.57	9.67	10.77	14.94	20.57
Alaska	2.79	3.04	3.04	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03	5.84	6.02	10.74	15.63
Arizona	-	-	-	-	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29	12.30
Arkansas	2.75	2.66	2.66	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	12.94	14.73	24.17
California	2.43	2.50	2.48	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	7.22	12.60	22.72
Colorado	2.88	2.88	2.88	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	9.92	13.14	20.69
Florida	-	-	-	-	-	-	-	-	-	-	-	3.18	4.59	9.66	11.71	11.24	11.67	12.00	13.07	18.84
Illinois	2.99	2.98	2.98	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.80	23.49	35.36
Indiana	2.98	2.98	2.96	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.29	23.56	35.15
Kansas	2.89	2.91	2.91	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	22.00	34.21
Kentucky	2.97	2.95	2.92	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.58	34.98
Louisiana	3.15	3.15	3.12	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.42	11.40	19.38
Michigan	2.92	2.85	2.85	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	12.34	14.94	21.55
Mississippi	2.82	2.78	2.76	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	8.11	13.95	15.80
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Montana	2.42	2.42	2.44	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.25	12.39	22.24
Nebraska	2.85	2.83	2.83	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	16.75	30.49
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	2.86	2.88	2.88	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.01	14.06	23.82
New York	4.76	4.60	4.59	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	14.74	23.78	37.39
North Dakota	2.72	2.75	2.73	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	8.55	12.00	14.99
Ohio	3.09	3.10	3.15	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.81	22.52	36.23
Oklahoma	2.91	2.92	2.91	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	10.90	15.03	27.38
Pennsylvania	4.71	4.57	4.56	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.77	24.09	37.44
South Dakota	-	-	-	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.13	25.28	28.75
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.51	13.72	13.75	12.70	20.26	34.29
Texas	2.97	2.99	2.97	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.62	21.59
Utah	2.75	2.74	2.72	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41	19.80
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	4.14	4.00	3.99	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.50	28.00	37.00
Wyoming	2.50	2.49	2.50	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	8.50	21.37
Other	2.31	2.10	2.06	2.14	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	8.72	6.33	11.22	10.98	9.82	12.41	19.14
Total	2.89	2.90	2.89	2.88	2.86	2.88	2.92	2.94	3.09	3.18	3.39	3.39	3.89	6.74	7.56	8.14	8.57	8.96	12.51	20.89

(1) Included with other

Source: U.S. Bureau of Mines. Annual Petroleum Statements

Section VI
Table 9

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	12.0	12.0	12.2
Arizona	-	-	-	-	-	-	-	-	-	14.0	-	-	-	-
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1
Maryland	-	-	-	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	-	-	25.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1
Nebraska	-	-	-	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8
South Dakota	6.0	6.5	6.3	-	5.0	5.0	5.0	5.0	-	-	-	-	-	-
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0
Total	6.0	6.5	6.3	6.5	7.3	7.8	9.2	10.1	10.4	10.8	11.3	11.9	12.9	14.0

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

Section VI
Table 9a

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	7.4	9.8	11.8	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5
Alaska	20.4	21.4	24.7	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9
Arizona	-	11.9	12.1	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2
Arkansas	13.5	14.9	15.5	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0
California	28.3	29.0	29.3	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0
Colorado	11.6	11.6	11.7	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0
Florida	18.9	20.7	20.0	13.5	12.9	14.2	14.8	15.2	15.7	-	29.9	32.0	34.3	53.6	97.3	98.2
Illinois	12.8	14.3	12.9	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5
Indiana	20.1	21.1	23.4	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0
Kansas	12.5	12.4	13.3	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0
Kentucky	24.8	24.8	23.9	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0
Louisiana	18.7	19.7	19.8	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0
Maryland	27.2	27.0	26.9	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3
Michigan	21.1	21.3	27.1	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5
Mississippi	18.6	19.0	18.0	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0
Missouri	24.7	25.0	27.0	24.3	24.5	-	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5
Montana	7.4	7.4	7.5	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5
Nebraska	16.7	18.2	18.8	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3
New Mexico	10.9	11.5	11.9	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5
New York	29.5	28.1	29.5	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0
North Dakota	12.6	13.7	19.1	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0
Ohio	24.9	25.6	24.2	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8
Oklahoma	12.1	12.8	13.0	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2
Pennsylvania	29.4	27.2	26.0	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5
Tennessee	18.3	18.5	18.9	19.5	19.0	-	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0
Texas	12.3	12.3	12.5	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8
Utah	15.7	16.8	18.2	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5
Virginia	27.1	27.1	23.4	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0
West Virginia	27.4	27.5	26.6	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0
Wyoming	12.5	14.6	14.2	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0
Total	15.1	15.5	15.8	15.4	15.6	15.7	16.0	16.4	16.7	17.1	18.2	18.6	21.6	30.4	44.5	58.0

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1977	1978	1979	1980	1981	1982
Alabama	147.0	150.0	203.9	318.6	477.0	344.0
Alaska	40.2	52.1	51.8	73.2	62.0	63.0
Arizona	33.5	37.0	41.3	NA	NA	259.0
Arkansas	58.5	75.0	95.9	69.6	181.0	213.0
California	116.9	135.7	170.5	217.0	257.0	309.0
Colorado	81.0	84.0	141.0	147.0	197.0	317.0
Florida	108.9	139.0	157.2	173.0	271.0	246.0
Illinois	120.0	129.0	186.1	190.0	247.0	262.0
Indiana	69.0	71.0	105.4	135.0	208.0	155.0
Kansas	48.5	57.0	75.6	77.2	92.0	151.0
Kentucky	55.0	58.0	94.7	89.3	101.0	152.0
Louisiana	70.3	83.6	111.5	160.7	207.0	260.0
Maryland	39.0	61.4	103.6	45.6	48.0	78.0
Michigan	101.0	119.7	174.0	235.5	286.0	319.0
Mississippi	73.0	114.6	160.0	231.7	321.0	391.0
Missouri	42.0	--	--	--	--	--
Montana	71.9	84.7	121.1	145.4	191.0	215.0
Nebraska	65.2	68.0	85.0	82.9	145.0	199.0
New Mexico	81.0	98.8	136.6	175.8	213.0	247.0
New York	116.0	119.0	126.6	194.9	267.0	375.0
North Dakota	35.3	46.2	128.0	118.8	194.0	230.0
Ohio	139.7	157.0	180.5	197.7	217.0	271.0
Oklahoma	79.0	90.2	112.4	150.7	188.0	274.0
Oregon	--	--	213.0	240.0	260.0	333.0
Pennsylvania	80.0	86.0	132.6	212.7	233.0	280.0
South Dakota	--	--	210.7	NA	275.0	308.0
Tennessee	74.0	164.0	170.0	176.0	255.0	300.0
Texas	90.3	99.5	123.4	156.5	187.0	217.0
Utah	61.2	64.3	71.6	111.7	110.0	306.0
Virginia	126.0	131.3	168.1	285.0	215.0	369.0
West Virginia	61.0	65.8	105.0	300.0	300.0	320.0
Wyoming	64.0	79.3	113.0	192.0	277.0	322.0
Total	79.0	90.5	117.8	159.0	198.0	246.0

Source: U.S. Energy Information Administraton, Natural Gas Annuals

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)
Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

CRUDE & GRAVITY		1970	1971(1)	1972	1973(1)				1974			1975		1977	
		31 Aug	15 Feb	20 Jan	1 Jan	1 Oct	16 Oct	1 Nov	1 Jan	1 July	1 Nov	1 Jan	1 Oct	1 Jan	1 July
PERSIAN/ARABIAN GULF CRUDES															
Saudi Arabia															
Arab Light	34°	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66
Arab Berri	39	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22
Arab Medium	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25
Arab Heavy	27	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92
Iran															
Iran Light	34	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77
Iran Heavy	31	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43
Kuwait															
Kuwait	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	NA	NA
Abu Dhabi															
Murban	39	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26
Marine (Umm Shaif)	37	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.02
Zakum	40	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16
Iraq															
Basrah	35	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	NA	NA
Qatar															
Dukhan	40	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18
Marine	36	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.98	13.98
Oman															
Oman	34	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98
MEDITERRANEAN & AFRICAN CRUDES															
Saudi Arabia															
Arab Light	34	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	NA	NA
Iraq															
Kirkuk	36	2.21	2.41	3.40	3.48	4.24	7.21	7.29	NA	NA	NA	NA	NA	NA	NA
Libya															
Libya	40	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.06	18.25	18.78
Nigeria															
Nigeria	34	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	NA	NA
VENEZUELAN CRUDES (Reference Prices)															
Venezuela															
Tia Juana	26	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	NA	NA
Tia Juana	31	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	NA	NA
Oficina	35	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	NA	NA

NA Not Available

(1) Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.

Source: Petroleum Intelligence Weekly

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)
Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

CRUDE & GRAVITY		1979 1 Jan
PERSIAN/ARABIAN GULF CRUDES		
Saudi Arabia		
Arab Light	34°	14.34
Arab Berri	39	14.93
Arab Medium	31	13.91
Arab Heavy	27	13.57
Iran		
Iran Light	34	14.45
Iran Heavy	31	14.10
Kuwait		
Kuwait	31	NA
Abu Dhabi		
Murban	39	14.97
Marine (Umm Shaif)	37	14.72
Zakum	40	14.87
Iraq		
Basrah	35	NA
Qatar		
Dukhan	40	14.89
Marine	36	14.68
Oman		
Oman	34	14.68
MEDITERRANEAN & AFRICAN CRUDES		
Saudi Arabia		
Arab Light	34	NA
Iraq		
Kirkuk	36	NA
Libya		
Libya	40	19.72
Nigeria		
Nigeria	34	NA
VENEZUELAN CRUDES (Reference Prices)		
Venezuela		
Tia Juana	26	NA
Tia Juana	31	NA
Oficina	35	NA

NOTE:
Posted prices are no longer available

NA Not Available

Source: Petroleum Intelligence Weekly

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1974				1975		1976			1977	
		1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July
						PERSIAN / ARABIAN CRUDES						
Saudi Arabia												
Arab Light	34°	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70
Arab Berri	39	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22
Arab Medium	31	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32
Arab Heavy	27	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02
Iran												
Iran Light	34	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81
Iran Heavy	31	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49
Kuwait												
Kuwait	31	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27
Abu Dhabi												
Murban	39	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26
Umm Shaif	37	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04
Zakum	40	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17
Iraq												
Basrah	35	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46[e]	12.65[e]	12.65[e]
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60[e]	11.65	11.70[e]	12.89[e]	12.85[e]
Qatar												
Dukhan	40	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19
Marine	36	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00
Oman												
Oman	34	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70[e]	12.74	13.00
						MEDITERRANEAN AND AFRICAN CRUDES						
Iraq												
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	10.67	11.74[e]	11.95[e]	N.A.	N.A.	N.A.	13.50
Libya												
Brega	40	N.A.	N.A.	N.A.	N.A.	11.20	12.32	12.32	12.32	12.62	13.92	14.20
Nigeria												
Bonny	37	N.A.	N.A.	N.A.	N.A.	11.43	12.60	12.84	12.89	13.10	14.33	14.63
						OTHER CRUDES						
Indonesia												
Sumatra Light	35	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55
Venezuela												
Tia Juana	26	N.A.	N.A.	N.A.	N.A.	11.62	11.39	11.12	11.22	11.65	12.72	12.71
Tia Juana	31	N.A.	N.A.	N.A.	N.A.	11.05	12.06	12.30	12.30	12.30	12.35	13.54
Oficina	35	N.A.	N.A.	N.A.	N.A.	11.49	12.54	12.80	12.80	12.80	13.99(2)	N.A.
Ecuador												
Oriente	30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60	11.60	13.00	13.00

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[e] Estimates by PIW
N.A. Not available

(1) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining and equity interest in Middle East oil producing ventures.

(2) Estimate by Petroleum Economist, October 1977

Source: Petroleum Intelligence Weekly

Section VI
Table 11a

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1979			1980		1981		1982	1983
		1 Jan.	1 Apr.	1 July	1 Jan.	1 June	19 Feb.	1 Nov.	1 Jan.	Mar.
					PERSIAN / ARABIAN CRUDES					
Saudi Arabia										
Arab Light	34°	13.34	14.55	18.00	26.00	28.00	32.00	34.00	34.00	29.00
Arab Berri	39	14.06	16.47	21.32	27.52	29.52	33.52	35.60	35.40	29.50
Arab Medium	31	12.89	14.05	17.54	25.45	27.45	31.45	33.00	32.40	27.40
Arab Heavy	27	12.51	13.64	17.17	25.00	27.00	31.00	31.50	31.00	26.00
Iran										
Iran Light	34	13.45	16.57	22.00(e)	28.50	35.37	37.00	34.60	34.20	28.00(e)
Iran Heavy	31	13.06	16.04	19.90(e)	27.77	34.37	36.00	33.40	32.30	27.30(e)
Kuwait										
Kuwait	31	12.83	15.80	19.49	25.50	29.50	35.50	33.00	32.30	27.30
Abu Dhabi										
Murban	39	14.10	17.10	21.56	27.56	31.56	36.56	35.70	35.50	29.56
Umm Shaif	37	13.78	16.88	21.36	27.36	31.36	36.36	35.50	35.30	29.36
Zakum	40	14.01	17.01	21.46	27.46	31.46	36.46	35.60	35.40	29.46
Iraq										
Basrah Light	35	13.29	15.70	19.96	25.96	29.96	35.96	34.67	32.65(e)	28.46(e)
Kirkuk	36	13.52	15.95	21.25	26.18	30.18	37.50	35.11	34.93	29.83
Qatar										
Dukhan	44	14.03	17.04	21.42	27.42	31.42	37.42	35.65	35.45	29.49
Marine	36	13.77	16.85	21.23	27.23	31.23	37.23	35.50	35.30	29.30
Oman										
Oman	36	13.65(e)	14.88(e)	N.A.	30.26	35.56	37.56	34.06	35.06	30.06
					MEDITERRANEAN AND AFRICAN CRUDES					
Libya										
Brega	40	14.69	18.25	23.45	34.67	36.67	41.00	37.50	37.00	30.50
Nigeria										
Bonny	37	14.80	18.50	23.49	29.99	36.71	40.02	36.52	36.52	30.00
					OTHER CRUDES					
Indonesia										
Sumatra Light	34	14.23(e)	15.51(e)	N.A.	27.50	31.50	35.00	35.00	35.00	29.53
Venezuela										
Tia Juana	26	13.36	15.76	19.31	25.20	29.28	32.88	32.88	32.88	27.88
Tia Juana	31	14.22	16.70	20.90	26.90	32.40	36.00	35.00	35.00	29.84
Oficina	34	14.69	17.21	22.45	28.75	34.25	38.06	37.06	37.06	31.09
Ecuador										
Oriente	30	13.18	20.60	N.A.	31.00	N.A.	39.30(e)	33.15	33.25	28.25

(e) Estimate

(1) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining an equity interest in Middle East oil producing ventures. Some prices are retroactive to prior dates.

N.A. Not available

Source: Petroleum Intelligence Weekly

Section VI
Table 12

AVERAGE U.S. RETAIL GASOLINE PRICES(1) FOR SELECTED CITIES

(Cents per gallon)

	1920	1930	1940	1950	1960	1970	1971	1972	1973	1974	1975	1976	1977
Average U.S.	29.83	19.95	18.41	26.76	31.13	35.69	36.43	36.13	38.82	52.41	57.22	59.47	63.07
Alabama, Birmingham	30.04	20.50	21.71	29.33	31.23	35.23	35.62	36.79	38.57	51.67	53.15	58.25	64.00
Arizona, Phoenix	32.50	20.71	21.25	26.47	26.57	35.07	35.90	35.40	38.28	51.32	57.73	60.48	63.65
Arkansas, Little Rock	30.42	17.63	20.83	29.17	29.48	34.32	35.57	34.65	36.98	50.66	57.34	60.32	64.40
California, Los Angeles	-	-	-	-	29.57	34.15	35.32	34.47	38.04	52.28	57.88	60.49	64.23
California, San Francisco	24.17	20.00	17.88	25.12	32.23	35.82	35.82	35.30	39.07	53.30	59.46	61.49	65.15
Colorado, Denver	31.42	19.50	18.38	26.46	33.40	33.73	36.48	35.15	38.87	52.25	58.18	61.23	64.07
Connecticut, Hartford	33.00	19.13	14.48	23.63	29.32	36.98	37.82	37.65	40.98	54.63	57.57	59.99	63.83
District of Columbia	29.46	17.23	15.08	25.36	30.32	35.73	36.05	37.65	39.07	54.33	58.48	60.40	64.31
Florida, Miami(2)	29.25	21.50	19.33	28.03	31.40	35.07	34.65	35.98	38.15	51.31	54.98	57.15	58.82
Georgia, Atlanta	30.04	22.17	20.42	29.71	31.87	35.01	36.23	36.15	38.57	52.59	58.23	58.99	63.65
Idaho, Boise	33.63	26.41	24.18	30.65	37.42	35.07	34.98	35.11	39.95	53.34	59.82	62.22	65.48
Illinois, Chicago	27.17	18.17	15.58	23.30	31.90	38.62	37.60	36.36	40.61	54.74	58.60	60.90	65.74
Indiana, Indianapolis	-	-	-	-	30.73	37.23	37.57	35.56	39.26	53.17	59.08	59.70	62.74
Iowa, Des Moines	27.42	18.33	16.78	25.08	31.57	35.32	36.32	37.23	38.45	51.17	57.32	60.33	64.79
Kansas, Wichita	26.80	15.30	14.99	24.70	29.15	32.98	32.98	32.40	37.78	51.17	57.32	61.33	63.49
Kentucky, Louisville	-	-	-	-	32.80	36.65	37.48	37.28	40.31	53.83	58.20	61.25	64.90
Louisiana, New Orleans	27.75	15.17	20.66	30.17	29.07	35.73	35.57	34.06	36.48	49.74	56.09	60.40	63.74
Maryland, Baltimore	29.58	18.77	17.88	25.74	31.65	35.65	36.07	37.65	39.23	51.21	56.70	58.48	62.46
Massachusetts, Boston	32.63	17.96	14.19	24.18	26.98	35.73	36.57	35.98	39.07	52.40	55.98	58.23	61.16
Michigan, Detroit	28.12	18.28	15.53	25.17	30.93	33.82	34.35	34.23	39.53	53.86	59.42	57.65	62.07
Mississippi, Jackson	-	-	-	-	32.23	35.48	37.52	34.91	38.48	52.09	54.17	57.15	62.29
Missouri, St. Louis	27.58	17.07	16.43	23.04	27.15	34.07	36.15	35.65	39.20	52.17	57.65	59.48	63.40
Montana, Great Falls	-	-	-	-	36.90	36.36	36.57	35.23	39.95	53.17	59.42	60.85	65.44
Nebraska, Omaha	27.25	20.08	17.97	26.75	32.53	37.82	37.40	37.48	40.03	53.17	59.40	63.15	66.15
New Hampshire, Manchester	32.04	21.12	16.02	24.97	30.07	36.40	38.23	37.65	40.07	54.48	56.48	59.40	62.98
New Jersey, Newark	29.88	17.12	15.78	23.18	28.32	37.40	38.07	36.32	38.57	52.30	54.73	55.65	59.40
New Mexico, Albuquerque	32.25	21.00	19.92	30.25	32.90	36.73	36.90	36.48	38.29	52.65	58.98	59.53	63.59
New York, Buffalo	30.92	18.07	16.30	26.15	27.92	36.11	36.28	37.15	40.07	55.38	58.65	61.37	64.61
New York, New York	31.92	17.36	16.11	26.50	31.40	36.93	39.18	44.56	43.73	59.75	61.15	61.81	64.31
North Carolina, Charlotte	31.33	20.94	20.32	29.37	31.03	35.32	37.36	37.31	39.32	51.99	56.76	60.42	61.95
Ohio, Cincinnati	-	-	-	-	31.40	36.65	37.90	37.90	38.65	53.36	57.19	57.23	60.65
Ohio, Cleveland	-	-	-	-	32.32	36.65	37.90	37.80	38.65	53.36	57.19	57.23	60.40
Oklahoma, Tulsa	27.75	19.25	14.58	26.75	30.48	35.07	35.07	34.73	37.53	50.33	56.44	59.46	63.74
Oregon, Portland	26.79	20.96	20.38	27.98	33.65	35.32	35.82	35.48	38.39	51.70	55.50	57.23	61.49
Pennsylvania, Philadelphia	32.00	20.58	15.49	25.19	28.48	36.48	37.23	36.74	37.90	52.88	53.90	56.73	61.40
Rhode Island, Providence	32.63	17.48	14.66	24.08	27.06	36.23	36.90	36.15	38.32	52.57	55.90	58.57	62.15
South Carolina, Charleston	29.17	20.86	20.10	28.07	30.94	34.32	35.73	36.65	38.40	52.88	54.39	57.90	61.23
Tennessee, Memphis	29.00	19.04	22.22	28.22	29.65	35.57	35.48	35.48	37.48	50.51	57.17	59.65	64.07
Texas, Dallas	-	-	-	-	29.23	32.73	33.90	33.15	34.37	47.17	53.53	56.40	59.90
Texas, El Paso	-	-	-	-	28.88	34.73	36.90	35.90	36.29	47.98	55.95	57.40	60.65
Texas, Houston	29.13	18.83	17.17	24.00	29.32	32.23	32.82	32.34	33.90	47.28	52.40	56.40	60.15
Utah, Salt Lake City	31.88	22.67	19.88	24.42	30.90	34.32	34.98	35.56	37.37	50.17	56.32	58.45	60.94
Virginia, Norfolk	30.08	19.86	20.38	27.33	31.23	35.57	35.23	36.90	39.48	52.73	56.23	60.07	63.98
Washington, Seattle	-	-	-	-	29.57	36.40	36.73	36.35	39.42	52.22	57.18	59.98	64.23
Washington, Spokane	28.92	23.83	21.92	30.63	36.73	36.40	36.57	35.95	39.07	52.72	56.68	60.13	63.87
West Virginia, Charleston	30.33	20.46	20.68	29.23	31.32	35.73	37.73	38.40	39.56	51.23	57.57	59.07	63.14
Wisconsin, Milwaukee	27.35	17.43	19.15	24.90	30.98	33.15	34.48	33.73	38.37	52.13	58.15	58.40	61.40

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(1) Regular grade gasoline at full service stations, retail price including tax.
(2) Prices prior to 1970 are for Jacksonville.

Source: Data for 1920-1950, Texaco Inc.: 1960-1977, Platt's Oilgram Price Service

Note: The list of selected cities has been changed.

Section VI
Table 12a

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Dollars per Gallon)

Area[2]	1978 Leaded	1978 Unleaded	1979 Leaded	1979 Unleaded	1980 Leaded	1980 Unleaded	1981 Leaded	1981 Unleaded	1982 Leaded	1982 Unleaded	1983 Leaded	1983 Unleaded
U.S. City Average	.627	.670	.857	.903	1.191	1.245	1.311	1.378	1.222	1.296	1.157	1.241
Anchorage, Alaska	.744	.767	.921	.952	1.241	1.275	1.408	1.465	1.380	1.446	1.253	1.339
Atlanta, Ga.	.624	.668	.843	.890	1.197	1.251	1.328	1.397	1.234	1.319	1.143	1.248
Baltimore Md.	.613	.666	.844	.891	1.204	1.251	1.334	1.389	1.288	1.335	1.244	1.296
Boston, Ma.	.623	.660	.857	.899	1.199	1.241	1.337	1.391	1.234	1.283	1.155	1.225
Buffalo, NY.	.644	.687	.899	.948	1.235	1.280	1.336	1.394	1.248	1.306	1.222	1.288
Chicago Ill-NW Ind.	.680	.730	.925	.979	1.246	1.304	1.344	1.410	1.264	1.321	1.223	1.298
Cincinnati, Oh-Ky-Ind.	.618	.655	.842	.882	1.154	1.206	1.275	1.345	1.217	1.293	1.187	1.257
Cleveland, Oh	.621	.665	.839	.884	1.160	1.203	1.304	1.385	1.269	1.327	1.175	1.248
Dallas-Ft Worth, Tx	.579	.617	.789	.833	1.132	1.186	1.245	1.307	1.140	1.209	1.081	1.158
Denver-Boulder, Colo.	.612	.663	.838	.886	1.150	1.217	1.259	1.330	1.197	1.273	1.091	1.197
Detroit, Mich.	.643	.696	.891	.947	1.242	1.303	1.335	1.395	1.247	1.304	1.227	1.280
Honolulu, Hawaii	.759	.764	.937	.976	1.298	1.355	1.409	1.567	1.472	1.542	1.400	1.462
Houston, Tx	.567	.613	.794	.835	1.139	1.183	1.261	1.313	1.143	1.212	1.040	1.132
Kansas City, Mo-Kn	.604	.644	.843	.886	1.137	1.190	1.237	1.298	1.195	1.262	1.155	1.226
Los Angeles, Long Beach, Anaheim, Ca.	.644	.691	.892	.943	1.213	1.271	1.337	1.409	1.232	1.318	1.166	1.215
Miami, Fla	.611	.661	.841	.892	1.186	1.235	1.319	1.389	1.257	1.364	1.207	1.326
Milwaukee, Wisc	.595	.631	.819	.864	1.139	1.198	1.273	1.329	1.245	1.286	1.190	1.224
Minneapolis, St. Paul, Minn-Wisc.	.618	.654	.860	.901	1.175	1.231	1.294	1.360	1.253	1.328	1.211	1.284
New York, NY-NE N.J.	.632	.675	.882	.927	1.241	1.286	1.355	1.413	1.249	1.319	1.181	1.257
NE Penn	.610	.650	.837	.879	1.178	1.218	1.306	1.353	1.197	1.242	1.157	1.208
Philadelphia,Pa-NJ.	.618	.658	.855	.904	1.192	1.233	1.309	1.365	1.188	1.255	1.149	1.210
Pittsburgh, Pa.	.628	.663	.857	.893	1.205	1.242	1.356	1.409	1.234	1.312	1.147	1.233
Portland, Ore-Wash	.636	.681	.870	.907	1.193	1.226	1.317	1.381	1.257	1.337	1.121	1.230
St. Louis, Mo-Ill.	.607	.656	.851	.897	1.145	1.208	1.230	1.299	1.151	1.213	1.111	1.164
San Diego, Ca.	.636	.691	.881	.932	1.215	1.280	1.323	1.408	1.240	1.339	1.157	1.253
San Fran-Oakland, Ca.	.661	.717	.899	.961	1.243	1.310	1.355	1.436	1.260	1.353	1.154	1.290
Seattle-Everett, Wash.	.650	.677	.877	.917	1.211	1.253	1.335	1.401	1.227	1.271	1.145	1.182
Washington, DC-Md-Va.	.651	.702	.853	.906	1.224	1.276	1.334	1.393	1.256	1.304	1.232	1.288
Region (3)												
Northeast	.631	.672	.870	.913	1.220	1.260	1.344	1.396	1.238	1.298	1.181	1.248
North Central	.628	.671	.861	.910	1.183	1.244	1.303	1.370	1.233	1.298	1.191	1.261
South	.611	.654	.831	.863	1.172	1.223	1.293	1.360	1.196	1.272	1.132	1.217
West	.643	.695	.879	.936	1.201	1.267	1.323	1.405	1.233	1.325	1.132	1.238

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(1) Regular grade gasoline - leaded and unleaded

(2) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are are the more extensive Standard Consolidated Areas.

(3) Regions are defined as the four Census regions.

SOURCE: U.S. Bureau of Labor Statistics

Section VI
Table 13

Average Price of Natural Gas Consumed by End Use Sector
(Dollars per Thousand Cubic Feet)

Year	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers					Total Consumption
			Residential	Commercial(1)	Industrial	Electric Utilities	Total	
1967	0.15	0.20	1.04	0.74	0.34	0.28	0.57	0.53
1968	0.16	0.20	1.04	0.73	0.34	0.22	0.55	0.51
1969	0.18	0.21	1.05	0.74	0.35	0.27	0.57	0.53
1970	0.18	0.21	1.09	0.77	0.37	0.29	0.59	0.55
1971	0.19	0.22	1.15	0.82	0.41	0.32	0.63	0.59
1972	0.20	0.23	1.21	0.88	0.45	0.34	0.68	0.63
1973	0.21	0.25	1.29	0.94	0.50	0.38	0.73	0.68
1974	0.51	0.30	1.46	1.07	0.67	0.51	0.89	0.84
1975	0.47	0.40	1.71	1.35	0.96	0.77	1.19	1.12
1976	0.57	0.51	1.98	1.64	1.24	0.98	1.47	1.37
1977	0.71	0.77	2.35	2.04	1.50	1.32	1.78	1.66
1978	0.79	0.90	2.56	2.23	1.70	1.48	1.98	1.85
1979	1.06	1.32	2.98	2.73	1.99	1.81	2.34	2.21
1980	1.43	1.85	3.68	3.39	2.56	2.27	2.91	2.80
1981	1.93	2.39	4.29	4.00	3.14	2.89	3.51	3.39
1982	2.23	2.97	5.17	4.82	3.87	3.48	4.32	4.15

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(1) Includes deliveries to local, state and federal agencies engaged in non-manufacturing activities.

Source: U. S. Department of Energy, Natural Gas annuals.

Section VI
Table 14

COST OF U.S. PETROLEUM IMPORTS
(f.a.s. value)

Year	Quantity(1) (mmb)	Total Value (mm$)	Value Per Barrel
1970	1,353	$ 2,928	$ 2.16
1971	1,565	3,613	2.31
1972	1,874	4,631	2.47
1973	2,470	8,149	3.30
1974	2,411	26,073	10.81
1975	2,382	26,664	11.19
1976	2,850	34,614	12.15
1977	3,192	44,071	13.81
1978	2,903	42,188	14.12
1979	3,194	59,805	18.72
1980	2,566	78,637	30.60
1981	2,236	76,659	34.28
1982	1,921	60,458	31.48
1983	1,862	53,217	28.58

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(1) Includes imports into the Strategic Petroleum Reserve and the U.S. Virgin Islands.

Source: U.S. Department of Commerce, Bureau of the Census, Summary of the U.S. Export and Import Merchandise Trade

BASIC PETROLEUM DATA BOOK

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Section VII
Table 1

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations (1)	Total World
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	N.A.	N.A.
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	N.A.	N.A.
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	N.A.	N.A.
1953	2,776,778	163,237	328,243	3,268,258	57,147	75,196	204,607	550,652	4,155,858	N.A.	N.A.
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	N.A.	N.A.
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	N.A.	N.A.
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	386,546	836,671	5,136,104	N.A.	N.A.
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	N.A.	N.A.
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	N.A.	N.A.
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	7,229,097
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	7,818,752
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	8,424,782
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	9,097,773
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	9,835,302
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	10,573,703
1965	4,202,039	416,873	766,617	5,385,529	285,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	11,385,224
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	12,251,156
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	12,992,982
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	14,252,325
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	15,587,588
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	16,681,650
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	3,622,268	17,698,723
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	18,744,793
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	20,425,752
1974	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,599	16,755,836	3,034,212	19,790,048

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(1) Excludes Cuba

N.A. Not Available

Source: 1950-1958, U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1974, U.S. Bureau of Mines, International Petroleum Annual

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist[1] Nations	Total World
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	19,343,365
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	21,175,836
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	22,242,275
1978	6,879,017	633,868	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	22,964,248
1979	6,757,077	677,805	1,606,730	9,041,612	647,510	512,460	4,146,765	5,488,505	19,836,852	3,928,130	23,764,982
1980	6,242,445	712,602	1,823,046	8,778,093	713,334	533,262	3,269,112	5,060,316	18,354,117	4,715,544	22,069,661
1981	5,861,058	642,400	1,622,425	8,125,883	615,025	571,225	3,157,250	4,761,425	17,230,808	4,807,050	22,037,858
1982	5,582,938	571,225	1,702,725	7,856,888	636,925	602,250	3,040,450	4,562,500	16,096,088	4,812,525	20,908,613
1983	5,559,364	518,300	1,662,575	7,740,239	658,825	609,550	3,033,150	4,449,350	16,491,114	4,834,425	21,325,539

(1) Excludes Cuba

Source: 1975-1979: U.S. Department of Energy, Energy Information Administration, International Energy Annual
1981-1983: U.S. Energy Information Administration, United States; Rest of World, BP Statistical Review of the World Oil Industry

Section VII
Table 2

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

	PRODUCTION													
Year	Crude Oil	Lease Condensate	Natural Gas Liquids	Total Imports	Other Refinery Input(1)	Total New Supply	Unaccounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1947	5,087	(4)	362	437	2	5,888	+93	-12	5,993	- 14	6,007	69	451	5,487
1948	5,520	(4)	401	514	1	6,436	+84	- 8	6,528	+293	6,235	69	368	5,798
1949	5,046	(4)	430	646	1	6,123	+42	- 2	6,167	- 8	6,175	39	327	5,809
1950	5,407	(4)	499	850	--	6,756	+98	2	6,856	- 56	6,912	51	305	6,556
1951	6,158	(4)	561	844	1	7,564	+49	7	7,620	+101	7,519	32	422	7,065
1952	6,256	(4)	611	952	1	7,820	+20	7	7,847	+108	7,739	17	422	7,290
1953	6,458	(4)	654	1,034	1	8,147	+ 9	20	8,176	+142	8,034	24	402	7,608
1954	6,342	(4)	691	1,052	1	8,086	+ 8	23	8,117	- 29	8,146	27	355	7,764
1955	6,807	(4)	771	1,248	1	8,827	+ 9	34	8,870	--	8,870	38	368	8,464
1956	7,151	(4)	800	1,436	1	9,388	+ 8	43	9,439	+179	9,260	47	430	8,783
1957	7,170	(4)	808	1,574	1	9,553	+18	42	9,613	+167	9,446	51	568	8,827
1958	6,710	(4)	807	1,700	1	9,218	N.A.	64	9,282	140	9,422	29	275	9,118
1959(5)	7,053	(4)	879	1,780	1	9,713	N.A.	86	9,799	+ 51	9,748	11	211	9,526
1960	7,035	(4)	929	1,815	1	9,780	N.A.	146	9,926	- 83	10,009	9	202	9,798
1961	7,183	(4)	991	1,917	--	10,091	N.A.	179	10,270	+111	10,159	9	174	9,976
1962	7,332	(4)	1,021	2,082	--	10,435	N.A.	175	10,610	+ 32	10,578	9	169	10,400
1963	7,542	(4)	1,098	2,123	--	10,763	N.A.	202	10,965	+ 4	10,961	10	208	10,743
1964	7,614	(4)	1,155	2,258	--	11,027	N.A.	217	11,244	+ 10	11,234	10	201	11,023
1965	7,804	(4)	1,210	2,468	--	11,482	N.A.	220	11,702	- 8	11,710	10	187	11,513
1966	8,295	(4)	1,284	2,573	--	12,152	N.A.	246	12,398	+104	12,294	11	198	12,085
1967	8,811	(4)	1,409	2,537	--	12,757	N.A.	292	13,049	+173	12,876	9	307	12,560
1968	8,660	435	1,504	2,840	9	13,448	+20	319	13,787	+152	13,635	11	231	13,393
1969	8,778	460	1,590	3,166	11	14,005	- 7	335	14,333	- 48	14,381	12	232	14,137
1970	9,180	457	1,660	3,419	17	14,733	-21	359	15,071	+103	14,968	12	259	14,697
1971	9,032	430	1,694	3,925	17	15,098	+41	381	15,520	+ 71	15,449	12	224	15,213
1972	8,998	443	1,744	4,741	28	15,954	+28	388	16,370	-232	16,602	12	223	16,367
1973	8,784	424	1,738	6,256	30	17,232	+ 2	453	17,687	+135	17,552	13	231	17,308
1974	8,375	399	1,688	6,112	36	16,610	-25	480	17,065	+179	16,886	13	221	16,652

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(1) Includes benzol, other hydrocarbons, and hydrogen
(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available
(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply
(4) Separate data not available prior to 1968
(5) Data for this year and those for subsequent years are on a 50-state basis

Source: U.S. Bureau of Mines

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

Year	PRODUCTION Crude Oil	PRODUCTION Lease Con-densate	PRODUCTION Natural Gas Liquids	Total Imports	Other Refinery Input(1)	Total New Supply	Un-accounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1975	8,007	367	1,633	6,056	38	16,101	+16	460	16,577	+ 32	16,545	14	209	16,322
1976	7,776	355	1,604	7,313	38	17,086	+77	477	17,640	- 58	17,698	14	223	17,461
1977	7,875	370	1,618	8,787	50	18,700	- 6	524	19,218	+529	18,689	16	243	18,431(4)
1978	8,353	355	1,567	8,202	53	18,530	-57	496	18,969	-257	19,226	16	362	18,847(4)
1979	8,181	371	1,583	8,389	44	18,568	-11	527	19,084	+ 81	19,001	16	471	18,516(4)
1980	8,210	386	1,573	6,865	44	17,078	+34	597	17,709	+ 94	17,615	14	544	17,056(4)
1981	8,177	395	1,609	5,740	50	15,971	+61	508	16,540	-176	16,716	63	595	16,058(4)
1982	8,262	387	1,550	4,948	53	15,200	-55	531	15,676	-497	16.173	62	815	15,296
1983	8,688	(6)	1,547	4,817	64	15,116	+114	488	15,718	-254	15,972	2	739	15,231

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(1) Includes benzol, other hydrocarbons, and hydrogen
(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available
(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply
(4) Figures do not add due to independent rounding
(5) Excludes oil imported to the strategic petroleum reservve
(6) Included with crude oil. Separate figure is not available.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annual

Section VII
Table 3

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE*
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	2,306	1	2,307	92,303	- 1	2,308	130	2,178
1948	2,513	1	2,514	103,756	+32	2,482	102	2,380
1949	2,632	-	2,632	111,443	+21	2,611	108	2,503
1950	2,806	-	2,806	116,769	+14	2,792	68	2,724
1951	3,122	1	3,123	134,867	+28	3,095	110	1,985
1952	3,219	4	3,223	134,737	+ 1	3,222	99	3,123
1953	3,470	1	3,471	157,872	+64	3,407	104	3,303
1954	3,456	-	3,456	155,400	- 7	3,463	94	3,369
1955	3,764	1	3,765	165,433	+27	3,738	95	3,643
1956	3,904	4	3,908	187,271	+59	3,849	97	3,752
1957	3,940	8	3,948	196,776	+26	3,922	106	3,816
1958	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959(2)	4,079	36	4,115	187,613	-	4,115	46	4,069
1960	4,160	27	4,187	194,774	+20	4,167	37	4,130
1961	4,199	29	4,228	195,830	+ 3	4,225	25	4,200
1962	4,338	38	4,376	190,138	+16	4,360	18	4,342
1963	4,452	44	4,496	190,937	+ 6	4,490	19	4,471
1964	4,539	29	4,568	193,633	+21	4,547	17	4,530
1965	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,911	43	4,954	194,177	+30	4,924	11	4,913
1967	5,057	42	5,099	207,980	+37	5,062	14	5,048
1968	5,301	59	5,360	211,526	+10	5,350	6	5,344
1969	5,557	62	5,619	217,392	+16	5,603	7	5,596

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(2) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Table 3a

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE*
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1970	5,768	67	5,835	214,348	- 8	5,843	4	5,839
1971	6,034	59	6,093	223,771	+25	6,068	5	6,063
1972	6,339	68	6,407	217,149	-18	6,425	2	6,423
1973	6,580	132	6,712	213,417	-11	6,723	5	6,718
1974	6,404	204	6,608	221,881 (3)	+23	6,585	3	6,582
1975	6,558	184	6,742	238,002	+27	6,715	2	6,713
1976	6,877	131	7,008	234,272	-10	7,018	4	7,014
1977	6,982	218	7,200	257,623	+64	7,136	2	7,134
1978	7,117	190	7,307	241,002	-54	7,361	2	7,358
1979	6,889	181	7,070	239,919	- 3	7,073	—	7,073
1980	6,541	140	6,681	264,205 (4)	+66	6,615	—	6,615
1981	6,437	157	6,594	256,425	-27	6,621	2	6,619
1982	6,362	197	6,559	246,935	-26	6,584	20	6,564
1983	6,365	248	6,613	225,042	-45	6,658	10	6,648

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* Includes motor and aviation gasoline.

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels.

(4) U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 265,802 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual.
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual

TOTAL U.S. SUPPLY AND DEMAND FOR MOTOR GASOLINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1964(1)	4,399	29	4,428	185,766	+23	4,405	2	4,403
1965	4,537	27	4,564	174,717	-30	4,594	1	4,593
1966	4,798	43	4,841	186,393	+31	4,810	2	4,808
1967	4,956	42	4,998	200,055	+ 7	4,961	3	4,958
1968	5,215	59	5,274	204,496	+13	5,261	1	5,260
1969	5,484	62	5,546	211,199	+18	5,528	2	5,526
1970	5,714	67	5,781	209,255	- 5	5,786	1	5,785
1971	5,984	59	6,043	219,352	+28	6,015	1	6,014
1972	6,292	68	6,360	212,894	-18	6,378	1	6,377
1973	6,535	134	6,669	209,478	-10	6,679	4	6,675
1974	6,360	204	6,564	218,410(2)	+24	6,540	2	6,538
1975	6,520	184	6,704	234,978	+28	6,676	2	6,674
1976	6,841	130	6,971	231,432	-10	6,679	4	6,675
1977	7,033	217	7,250	257,623	+73	7,177	2	7,175
1978(4)	7,335	190	7,525	237,979	-54	7,579	1	7,578
1979(4)	7,120	181	7,301	237,200	- 1	7,302	0(3)	7,302
1980(4)	6,814	140	6,954	261,398	+66	6,888	1	6,887
1981	6,405	157	6,562	253,001	-28	6,590	2	6,588
1982	6,338	197	6,535	243,876	-25	6,560	20	6,539
1983	6,340	247	6,587	222,434	-45	6,632	10	6,622

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(1) Data prior to 1964 is not available on a comparable basis.

(2) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.

(3) Totals do not add due to independent rounding.

(4) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplies. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980. The stock reporting base was also altered as of January 1981. On the new basis, year-end 1980 stocks were 263,003 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Bureau of Mines, Annual Petroleum Statements.
U.S. Department of Energy, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	864	12	876	51,081	- 23	899	82	817
1948	1,046	7	1,053	71,429	+ 64	989	58	931
1949	941	5	946	75,207	+ 10	936	34	902
1950	1,100	7	1,107	71,948	- 10	1,117	35	1,082
1951	1,311	5	1,316	86,619	+ 29	1,287	62	1,225
1952	1,422	8	1,430	99,375	+ 35	1,395	92	1,303
1953	1,452	9	1,461	111,741	+ 35	1,426	89	1,337
1954	1,490	9	1,499	108,144	- 9	1,508	66	1,442
1955	1,656	12	1,668	111,333	+ 9	1,659	67	1,592
1956	1,825	14	1,839	133,981	+ 62	1,777	94	1,683
1957	1,838	23	1,861	149,449	+ 42	1,819	131	1,688
1958	1,734	41	1,775	125,101	- 67	1,842	52	1,790
1959(1)	1,865	48	1,913	151,164	+ 70	1,843	35	1,808
1960	1,830	35	1,865	138,455	- 34	1,899	27	1,872
1961	1,911	47	1,958	152,018	+ 37	1,921	19	1,902
1962	1,975	33	2,008	144,505	- 21	2,029	22	2,007
1963	2,098	25	2,123	156,677	+ 35	2,088	41	2,047
1964	2,031	32	2,063	155,846	- 2	2,065	15	2,050
1965	2,099	36	2,135	155,407	- 1	2,136	10	2,126
1966	2,155	38	2,193	154,096	- 4	2,197	12	2,185
1967(2)	2,207	51	2,258	159,703	+ 5	2,253	12	2,241
1968	2,299	131	2,430	173,158	+ 37	2,393	4	2,389
1969	2,326	139	2,465	171,714	- 4	2,469	3	2,466
1970	2,460	148	2,608	195,271	+ 65	2,543	3	2,540
1971	2,503	153	2,656	190,622	- 13	2,669	8	2,661
1972	2,636	181	2,817	154,319	- 99	2,916	3	2,913
1973	2,824	392	3,216	196,461	+115	3,101	9	3,092
1974	2,671	289	2,960	200,068(3)	+ 10	2,950	2	2,948

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(1) These figures and those for subsequent years are on a 50-state basis.

(2) Production and stocks at gas processing plants are included in this and subsequent years.

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change (Table 5a).

SOURCE: U.S. Bureau of Mines, Annual Petroleum Statements

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	2,656	155	2,811	208,833	- 41	2,852	1	2,851
1976	2,925	146	3,072	185,986	- 62	3,134	1	3,133
1977	3,281	250	3,531	250,295	+178	3,353	1	3,352
1978(1)	3,171	173	3,344	216,463	- 93	3,437	3	3,435
1979(1)	3,167	197	3,364	228,729	+ 34	3,330	3	3,327
1980(1)	2,769	139	2,908	205,132	- 64	2,972	3	2,969
1981	2,623	173	2,796	191,541	- 38	2,834	5	2,829
1982	2,616	93	2,709	178,592	- 35	2,744	74	2,671
1983(3)	2,456	174	2,630	140,263	-124	2,754	64	2,690

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(1) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980.

(2) Totals may not add due to independent rounding.

(3) In 1983, DOE changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised stock figures for 1982.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	1,301	149	1,450	47,091	--	1,450	29	1,421
1948	1,329	146	1,475	64,021	+72	1,403	36	1,367
1949	1,177	206	1,383	60,193	-11	1,394	35	1,359
1950	1,180	329	1,509	40,750	-53	1,562	45	1,517
1951	1,302	327	1,629	42,853	+ 3	1,626	80	1,546
1952	1,257	351	1,608	48,706	+16	1,592	76	1,516
1953	1,248	360	1,608	49,370	+ 2	1,606	71	1,535
1954	1,158	354	1,512	52,105	+ 8	1,504	73	1,431
1955	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,183	445	1,628	44,491	+15	1,613	76	1,537
1957	1,176	475	1,651	59,959	+42	1,609	105	1,504
1958	1,025	499	1,524	59,508	- 1	1,525	70	1,455
1959(1)	973	610	1,583	53,501	-18	1,601	57	1,544
1960	918	637	1,555	44,870	-24	1,579	51	1,528
1961	875	667	1,542	44,869	--	1,542	39	1,503
1962	820	724	1,544	49,996	+14	1,530	35	1,495
1963	765	747	1,512	47,538	- 6	1,518	42	1,476
1964	739	808	1,547	40,403	-20	1,567	52	1,515
1965	746	946	1,692	56,214	+43	1,649	41	1,608
1966	733	1,032	1,765	61,196	+14	1,751	35	1,716
1967	766	1,085	1,851	65,597	+ 5	1,846	60	1,786
1968	765	1,120	1,885	67,359	+ 5	1,880	54	1,826
1969	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	765	1,583	2,348	59,681	+16	2,332	36	2,296
1972	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	988	1,853	2,841	53,480	- 5	2,846	23	2,823
1974	1,083	1,587	2,670	59,694(2)	+17	2,653	14	2,639

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(1) These figures and those for subsequent years are on a 50 state basis.

(2) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change (Table 7a).

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

Year	Supply			Stocks as of Dec. 31 (thousands of barrels)	Demand			
	Production	Imports	New Supply		Change in Stocks	Total Demand	Exports	Domestic Demand
1975	1,251	1,223	2,474	74,126	- 2	2,476	15	2,461
1976	1,393	1,413	2,806	72,344	- 5	2,811	12	2,799
1977	1,767	1,359	3,126	89,993	+49	3,077	6	3,071
1978(1)	1,681	1,355	3,036	90,194	+ 1	3,037	13	3,024
1979(1)	1,708	1,151	2,859	95,598	+15	2,844	9	2,835
1980(1)	1,660	920	2,580	90,344	-14	2,594	33	2,561
1981	1,369	800	2,169	77,992	-37	2,206	118	2,088
1982	1,118	776	1,894	66,200	-32	1,926	209	1,716
1983(2)	852	699	1,551	48,504	-55	1,606	185	1,421

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(1) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980.

(2) In 1983, the Department of Energy changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised figure for 1982.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

DELIVERIES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	Residual	Total	Total Fuel Oil Demand, All Sectors
1947	39	167	206	2,238
1948	41	155	196	2,298
1949	34	219	253	2,261
1950	36	255	291	2,599
1951	26	193	219	2,771
1952	23	192	215	2,819
1953	19	234	253	2,872
1954	17	194	211	2,873
1955	16	208	224	3,118
1956	15	202	217	3,220
1957	15	210	225	3,192
1958	15	211	226	3,245
1959(1)	14	225	239	3,352
1960(2)	13	233	246	3,400
1961	11	241	252	3,405
1962	11	242	253	3,502
1963	11	251	262	3,523
1964	10	267	277	3,565
1965	10	315	235	3,734
1966	10	378	388	3,901
1967	8	434	442(3)	4,027
1968	23(4)	505	528	3,215
1969	33	679	712	4,444
1970	68	856	924	4,744
1971	97	1,019	1,116	4,957
1972	187(5)	1,189	1,376	5,442
1973	214(5)	1,396	1,610	5,915
1974	232(5)	1,302	1,534	5,587
1975	174(5)	1,246	1,420	5,312
1976	165(5)	1,351	1,510	5,961
1977	210(5)	1,560	1,770	6,441
1978	211(5)	1,461	1,672	6,467
1979	128	1,333	1,461	6,162

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(1) These data include Alaska but not Hawaii.
(2) These data and those for subsequent years are on a 50-state basis.
(3) Electric public utility power plants only.
(4) These data and those for subsequent years include distillate sales for gas turbine plants.
(5) Includes kerosine jet fuel; 1972—24,000 bbls. per day; 1973—17,000 bbls. per day; 1974—14,000 bbls. per day; 1975--9,000 bbls. per day; 1976--11,600 bbls. per day; 1977—17,419 bbls. per day; 1978--12,342 bbls. per day.

Source: Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals
1979 -- Energy Information Administration, Petroleum Supply Annual.

DELIVERIES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	Residual	Total	Total Fuel Oil Demand, All Sectors
1980	87	1,066	1,153	5,531
1981	50	892	942	4,916
1982	33	623	656	4,387
1983	32	560	592	4,111

Source: U.S. Energy Information Administration, Petroleum Supply Annual

Section VII
Table 8

MOTOR GASOLINE CONSUMPTION IN THE UNITED STATES
(Thousand Gallons)

STATE	1962(1)	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,603	90,489	92,064	111,594	123,995
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	867,887	933,764	998,011	1,094,225	1,201,122
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,684	9,363,091	9,995,752	10,307,287
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,840	1,109,271	1,187,015	1,295,516	1,356,428
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316
Dist. of Col.	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798
Georgia	1,404,674	1,465,671	1,563,737	1,655,099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556
Hawaii	151,197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	363,990	379,479	400,735	421,403	451,315	468,321
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,652	4,408,829	4,596,788	4,836,883	5,048,307
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,485
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,261,616	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,696	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,366,279	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,547,187	4,748,355
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190
Montana	309,869	309,609	313,450	327,979	334,344	342,289	361,060	371,950	395,762	425,158	427,048	440,456
Nebraska	633,965	655,102	676,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846
Nevada	184,637	205,360	218,989	233,702	242,024	257,239	264,295	285,519	314,702	333,806	365,954	389,776
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,830	686,811
New York	4,068,568	4,198,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,115	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,953	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,667	4,458,007	4,768,816	4,83[illegible],463
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,074,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,698	420,859	439,796	464,493	472,646
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,328,563	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,582	233,411	246,667	256,601	279,080	293,571
Total	62,531,373	64,779,104	67,663,848	70,337,126	73,686,872	76,139,326	80,867,012	85,415,920	89,405,266	93,907,352	100,068,575	104,579,479

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(1) Prior to 1962 data not available on a comparable basis.

Source: U.S. Energy Information Administraton, Natural Gas Annuals

Note: The gallonage shown above represents consumption of motor gasoline, excluding sales to U.S. Government and sales of aviation gasoline.

MOTOR GASOLINE SALES IN THE UNITED STATES
(Thousand Gallons)

STATE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	1,862,659	1,918,203	2,028,878	2,098,979	2,181,179	2,093,703	1,962,046	1,849,225	1,840,396	1,861,406
Alaska	163,070	193,725	214,140	204,006	209,118	219,472	201,373	212,804	235,112	221,229
Arizona	1,147,782	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722	1,344,438	1,341,613	1,410,904
Arkansas	1,152,195	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800	1,137,998	1,123,466	1,128,357
California	9,887,993	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050	10,842,862	10,660,534	11,032,662
Colorado	1,301,967	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288	1,506,429	1,513,235	1,560,776
Connecticut	1,327,308	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582	1,296,048	1,284,966	1,308,077
Delaware	296,489	303,545	315,973	314,070	313,277	306,489	293,851	290,581	282,463	308,772
Dist. of Col.	240,457	243,215	229,031	225,434	221,831	214,782	171,451	171,082	170,518	168,019
Florida	4,205,193	4,345,632	4,507,541	4,668,677	4,929,713	4,905,642	4,810,520	4,845,057	4,900,197	5,078,234
Georgia	2,739,639	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923	2,809,969	2,818,366	2,904,369
Hawaii	277,849	289,772	303,836	320,804	332,512	332,490	354,529	347,848	349,098	355,332
Idaho	457,785	482,462	520,640	530,225	563,708	538,740	488,333	471,054	456,063	459,377
Illinois	5,024,751	5,127,189	5,327,380	5,423,741	5,565,912	5,186,151	4,816,780	4,598,012	4,522,361	4,609,320
Indiana	2,739,043	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146	2,616,773	2,431,388	2,479,277
Iowa	1,647,054	1,766,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192	1,474,522	1,420,817	1,394,722
Kansas	1,329,122	1,378,773	1,462,585	1,433,106	1,504,662	1,406,812	1,310,568	1,268,609	1,236,159	1,240,248
Kentucky	1,676,588	1,743,523	1,840,476	1,889,170	1,941,387	1,868,006	1,755,397	1,729,135	1,721,620	1,734,296
Louisiana	1,756,343	1,830,011	1,986,865	2,076,160	2,157,919	2,158,327	2,081,328	2,103,397	2,145,094	2,151,035
Maine	520,051	536,015	567,427	575,775	586,048	541,664	517,014	497,749	505,620	519,891
Maryland	1,789,440	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209	1,919,423	1,888,873	1,892,434
Massachusetts	2,296,921	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675	2,249,956	2,235,986	2,266,746
Michigan	4,565,132	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036	4,014,363	3,795,814	3,680,884
Minnesota	2,034,085	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270	1,984,982	1,931,205	1,985,492
Mississippi	1,195,373	1,192,595	1,254,446	1,322,865	1,332,417	1,292,209	1,194,845	1,208,384	1,151,872	1,158,134
Missouri	2,628,598	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627	2,528,616	2,494,373	2,536,042
Montana	448,019	461,411	493,245	511,714	531,445	499,397	459,950	445,641	452,371	459,851
Nebraska	868,296	880,948	939,870	939,626	958,879	907,383	816,426	798,518	792,579	776,930
Nevada	382,610	409,496	434,031	464,832	509,705	500,916	500,286	508,535	490,270	489,835
New Hampshire	390,559	401,243	426,860	444,560	456,391	433,556	411,214	398,692	393,276	405,203
New Jersey	3,174,698	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992	3,150,798	3,172,525	3,371,871
New Mexico	683,532	708,455	760,885	779,366	821,722	793,452	746,655	742,486	744,599	740,916
New York	5,997,859	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549	5,674,946	5,617,353	5,491,074
North Carolina	2,820,286	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274	2,874,700	2,842,968	2,911,221
North Dakota	411,328	433,296	452,728	452,771	467,847	443,692	407,250	408,449	403,067	390,085
Ohio	5,006,097	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574	4,766,658	4,561,134	4,634,793
Oklahoma	1,675,497	1,743,196	1,832,255	1,881,335	1,984,458	1,897,821	1,845,259	1,922,403	1,929,207	1,907,622
Oregon	1,187,671	1,224,276	1,310,983	1,369,886	1,441,886	1,385,047	1,330,612	1,271,001	1,211,110	1,222,903
Pennsylvania	4,813,878	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328	4,474,475	4,384,130	4,370,547
Rhode Island	371,740	395,532	384,525	405,832	412,404	397,229	381,826	368,524	360,833	365,634
South Carolina	1,456,658	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787	1,529,196	1,515,808	1,539,188
South Dakota	456,444	501,055	474,182	489,910	497,196	458,549	423,517	403,635	393,021	389,287
Tennessee	2,181,836	2,367,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939	2,388,466	2,355,395	2,331,655
Texas	7,099,280	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499	8,149,252	8,201,687	8,393,680
Utah	616,419	646,942	680,027	714,148	761,968	730,529	734,992	768,450	734,020	725,317
Vermont	235,325	240,270	255,094	260,155	269,204	252,404	238,842	234,114	236,905	242,056
Virginia	2,441,443	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199	2,530,673	2,493,638	2,554,245
Washington	1,666,944	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513	1,872,364	1,851,127	1,919,152
West Virginia	766,439	813,024	872,009	900,930	909,773	888,849	845,242	804,632	810,848	801,736
Wisconsin	2,145,544	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363	2,067,800	1,982,060	2,011,843
Wyoming	294,460	319,042	343,229	361,399	388,681	381,674	373,723	375,068	359,425	338,752
Total	101,855,749	104,516,610	109,873,935	113,102,038	116,780,787	112,678,296	106,378,366	104,248,792	102,747,065	104,231,431

Source: Federal Highway Administration.

Note: The gallonage shown above represents consumption of motor gasoline and includes sales to U.S. Government and sales of aviation gasoline. Excludes exports and dealer transfers.

U.S. SALES OF DISTILLATE FUEL OILS, BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,326	4,346	4,891	5,370
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	2,618	2,616
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018	2,100	2,774
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433	2,175	2,052
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884	26,357	26,697
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238	3,099	4,225
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885	22,176	23,230
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413	2,487	2,723
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402	2,719	2,914
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150	8,190	8,971
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887	4,731	5,117
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--	876
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938	3,734	4,055
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869	43,008	42,490
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099	24,500	25,596
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883	11,360	11,141
Kansas	2,881	4,094	3,185	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477	5,060	4,751
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978	5,800	4,833
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756	11,249	10,694
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,426	6,434	7,108	7,456
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,086	12,495	13,101
Massachusetts	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452	47,781	51,022
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385	28,387	30,464
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468	15,079	16,241
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744	2,318	2,364
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274	12,700	12,830
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642	4,474	4,877
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527	3,929	4,183
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656	2,051	2,428
New Hampshire	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951	4,049	4,484
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923	45,634	45,542
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492	2,302	3,065
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779	79,499	81,677
North Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,406	11,544	13,353
North Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976	3,632	3,775
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	24,221	24,850	23,836
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754	2,603	2,631
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,939	10,981	10,862	10,132	9,380	10,456	10,920
Pennsylvania	19,916	22,198	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322	44,029	45,668
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250	7,167	8,093
South Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266	4,454	5,203
South Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800	2,882	2,964
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226	5,037	5,268
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077	26,541	24,315
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,256	4,655	3,478	3,841
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796	2,399	2,939
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300	12,984	14,184
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915	16,867	18,045
West Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913	2,154	2,462
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,099	17,149	20,136	20,316	21,711
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697	3,539	3,258
U.S. Total	298,014	341,973	329,196	395,306	448,908	479,210	488,844	526,245	581,127	615,775	617,275	653,559	658,992	683,325

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. SALES OF DISTILLATE FUEL OILS BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510	8,849	12,093
Alaska	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082	6,352	6,207
Arizona	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898	5,242	8,786
Arkansas	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474	5,489	9,412
California	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188	47,357	45,797
Colorado	4,441	4,148	4,580	4,074	4,002	4,670	4,811	5,574	5,490	5,211	6,242	6,784
Connecticut	23,199	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147	24,100	24,735
Delaware	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,097	4,309	4,345	4,298
Dist. of Col.	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934	3,834	3,314
Florida	9,369	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,698	16,525	19,488
Georgia	5,269	6,218	6,969	6,977	8,666	10,059	11,558	12,013	12,540	12,784	14,638	16,491
Hawaii	1,666	1,641	1,375	1,769	1,613	1,369	1,190	1,381	1,573	1,695	1,706	1,622
Idaho	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597	5,702	5,866
Illinois	42,255	41,361	41,421	41,580	41,702	39,831	39,846	42,795	44,498	44,517	49,467	55,276
Indiana	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363	30,670	34,233
Iowa	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,681	14,242	14,975
Kansas	5,187	5,242	4,612	5,487	5,405	6,310	6,009	6,660	6,488	7,559	8,401	9,166
Kentucky	4,426	5,822	5,532	5,697	5,659	7,068	6,901	7,304	7,865	8,209	7,776	9,470
Louisiana	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,796	13,384	17,644
Maine	8,307	8,645	9,487	8,792	9,424	9,038	10,110	10,647	11,417	11,837	12,120	12,744
Maryland	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860	20,000	21,435
Massachusetts	52,266	53,448	51,664	49,966	56,694	51,262	54,943	56,315	58,399	59,211	61,609	63,616
Michigan	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,601	37,473	38,108	41,684	48,660
Minnesota	15,967	16,776	16,629	16,739	19,227	21,195	20,083	22,233	22,121	22,390	23,777	25,979
Mississippi	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987	7,215	9,413
Missouri	12,858	13,412	13,939	13,884	14,077	13,908	13,924	17,067	16,473	16,218	16,350	18,101
Montana	5,248	5,522	5,400	5,684	5,041	5,802	3,459	4,119	4,669	4,823	5,709	6,121
Nebraska	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459	7,604	9,002
Nevada	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832	3,151	2,924
New Hampshire	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676	8,085	8,303
New Jersey	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447	64,769	72,659
New Mexico	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,183	4,547	5,405	5,395	6,569
New York	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122	113,833	122,075
North Carolina	13,366	15,617	16,000	16,249	17,428	20,869	20,577	19,944	20,407	22,553	21,609	23,030
North Dakota	3,693	4,472	4,584	4,529	5,252	6,008	6,036	6,156	5,959	4,973	4,915	5,135
Ohio	23,433	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435	35,090	41,414
Oklahoma	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573	5,473	7,828
Oregon	11,061	11,777	12,828	13,855	13,295	13,837	13,083	13,298	13,646	12,895	14,162	15,467
Pennsylvania	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544	63,221	70,757
Rhode Island	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623	9,070	9,176
South Carolina	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469	9,114	9,722
South Dakota	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372	4,600	4,469
Tennessee	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945	11,609	14,218
Texas	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398	34,884	46,515
Utah	3,085	3,607	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104	6,515	6,310
Vermont	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732	5,472	5,729
Virginia	14,631	15,843	16,945	16,542	18,941	21,304	21,796	22,286	23,218	24,624	24,441	25,020
Washington	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188	18,621	19,090
West Virginia	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913	4,658	5,532
Wisconsin	22,153	23,399	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827	26,520	26,781
Wyoming	3,250	3,838	3,816	3,653	3,743	3,038	4,023	5,153	5,249	5,055	5,724	5,419
U.S. Total	690,874	729,095	748,124	747,551	786,891	809,713	829,200	873,100	900,300	927,250	971,320	1,074,870

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. DELIVERIES OF DISTILLATE FUELS OILS BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976(1)	1977(1)	1978(1)	1979	1980	1981	1982	1983
Alabama	13,988	14,761	14,488	18,032	19,624	20,194	15,996	19,419	17,939	15,436	16,550
Alaska	6,384	6,591	6,946	9,517	10,187	10,571	5,808	6,781	6,548	6,335	6,840
Arizona	15,118	11,197	11,481	10,181	13,727	13,829	13,194	11,330	9,741	8,102	6,201
Arkansas	9,949	10,316	9,392	10,228	12,451	13,014	16,163	14,209	13,116	13,336	13,764
California	51,165	42,991	43,129	45,545	54,009	60,126	68,104	61,338	67,494	67,337	67,897
Colorado	7,737	8,712	8,590	9,408	9,668	10,023	10,451	9,665	8,634	9,132	9,717
Connecticut	25,181	22,677	21,844	23,706	23,249	23,011	27,916	22,499	19,745	20,509	20,286
Delaware	4,382	4,310	4,487	4,615	5,096	4,840	3,685	3,702	3,133	2,753	2,819
Dist. of Col.	3,462	3,497	3,112	3,781	4,005	6,204	4,364	3,436	2,125	2,215	2,537
Florida	22,662	22,599	23,083	24,268	28,236	28,920	28,084	28,520	29,816	22,503	28,792
Georgia	20,478	20,835	16,922	22,480	22,559	19,641	18,692	19,397	19,388	18,387	19,395
Hawaii	1,839	1,897	2,512	2,370	3,502	3,246	6,451	5,915	6,043	4,570	4,762
Idaho	6,297	6,876	7,378	7,346	7,983	8,362	6,504	4,879	4,775	4,496	4,428
Illinois	54,288	53,950	52,103	58,877	58,459	61,760	48,584	36,086	34,427	32,521	31,020
Indiana	34,353	34,516	33,314	36,193	38,044	39,278	35,653	30,488	28,961	28,913	28,023
Iowa	15,467	14,751	14,249	15,257	16,012	15,687	20,595	15,793	14,374	16,212	15,957
Kansas	10,330	11,080	11,328	11,986	12,484	14,317	18,960	13,923	13,239	13,817	13,336
Kentucky	10,457	10,176	10,760	13,566	16,845	18,809	20,608	22,598	18,217	17,507	17,350
Louisiana	24,677	24,766	22,139	23,324	32,251	33,185	37,224	32,804	37,964	30,858	32,094
Maine	12,147	11,659	11,331	13,407	14,476	13,373	11,218	10,627	9,266	9,189	8,994
Maryland	22,591	22,094	21,712	20,571	21,748	21,341	23,971	22,417	18,365	16,198	16,419
Massachusetts	62,970	58,934	57,195	61,666	59,564	57,446	42,347	37,413	32,155	32,263	31,308
Michigan	47,146	44,204	41,747	43,826	44,835	45,461	30,892	27,841	26,657	22,819	22,691
Minnesota	26,768	24,185	23,974	27,513	26,645	27,807	26,069	21,826	18,714	20,880	20,428
Mississippi	13,045	14,372	12,188	13,713	14,584	16,306	12,277	12,905	13,487	11,849	12,465
Missouri	18,781	17,424	17,106	19,555	20,588	23,027	22,780	18,150	18,003	20,738	20,308
Montana	6,924	7,646	7,459	8,383	8,141	8,114	7,774	6,626	6,486	5,814	5,949
Nebraska	9,262	8,684	8,363	10,178	10,643	12,127	12,601	9,145	8,233	9,176	8,915
Nevada	3,304	2,561	2,535	2,715	3,055	3,822	3,189	4,022	3,488	3,518	3,579
New Hampshire	8,208	7,551	7,047	8,758	8,231	8,292	5,741	5,845	5,313	5,084	4,937
New Jersey	74,564	67,426	58,937	61,787	60,052	56,592	50,447	52,719	50,973	45,546	44,813
New Mexico	7,948	7,635	8,080	8,022	9,337	9,633	10,431	10,222	12,526	7,954	8,571
New York	120,200	108,677	104,646	115,237	114,446	114,344	88,449	72,515	64,263	62,608	60,315
North Carolina	24,898	22,246	20,965	23,881	27,107	24,749	29,404	23,820	21,228	20,184	20,890
North Dakota	4,626	4,303	4,362	4,061	4,069	4,194	8,268	8,037	7,708	7,209	7,020
Ohio	41,415	40,831	42,160	51,519	52,501	55,346	44,952	48,397	44,959	40,250	39,232
Oklahoma	8,814	8,744	9,696	11,775	12,775	14,477	14,119	12,051	15,519	14,557	14,228
Oregon	16,070	14,324	13,240	14,062	16,794	16,671	19,281	17,051	16,492	15,020	14,977
Pennsylvania	70,793	71,508	66,341	74,691	77,861	73,311	76,651	68,066	59,977	53,065	52,729
Rhode Island	8,633	8,038	7,787	8,478	8,199	7,679	7,042	5,046	3,993	3,984	3,868
South Carolina	10,956	9,638	8,132	10,218	12,972	11,023	11,894	10,730	9,841	9,462	9,775
South Dakota	4,140	3,586	3,821	3,311	3,042	3,670	6,166	4,842	4,406	5,131	4,969
Tennessee	15,310	15,815	17,657	21,469	24,071	25,825	23,504	18,818	19,512	18,764	19,255
Texas	57,567	58,766	55,262	58,655	74,678	81,171	96,359	95,939	90,359	90,180	92,368
Utah	7,792	8,624	8,962	8,367	8,631	9,023	8,150	7,412	7,115	6,425	6,756
Vermont	6,001	4,981	4,566	5,394	5,274	5,135	5,389	4,076	3,828	2,707	2,967
Virginia	26,561	24,938	24,534	25,339	28,332	27,161	33,726	24,406	23,638	21,943	21,604
Washington	20,091	16,345	16,606	18,405	19,800	20,765	21,776	18,709	17,695	18,200	18,122
West Virginia	5,992	5,622	6,478	6,807	9,019	8,796	10,904	10,340	9,450	7,659	7,535
Wisconsin	27,264	26,330	26,035	30,366	31,107	32,940	31,504	22,539	20,726	20,537	20,282
Wyoming	6,138	6,897	7,565	8,120	9,211	10,423	10,063	11,375	12,452	11,015	11,889
U.S. Total	1,135,063	1,081,086	1,043,746	1,150,929	1,230,179	1,257,061	1,214,374	1,086,709	1,032,476	974,864	981,927

Source: U.S. Department of Energy, Sales of Fuel Oil and Kerosine and Petroleum Supply Annuals

Section VII
Table 10

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils	Industrial Use	Oil Company Fuel	Electric Utility Company	Railroads	Vessel Bunkering	Military Use	Diesel	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	34,980	12,087	488,844
1954	320,117	41,589	7,699	6,070	77,389	15,563	8,752	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	48,870	9,908	615,775
1957	377,044	43,523	10,419	5,296	88,315	20,420	12,737	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	65,186	9,054	653,559
1959 (2)	415,521	33,380	8,642	5,005	87,802	19,250	11,394	70,527	7,471	658,992
1960 (3)	438,010	34,271	8,347	4,742	86,490	18,730	10,793	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,803	15,836	13,041	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,612	89,104	16,642	16,303	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	(1)	147,831	829,200
1968	510,682	45,795	9,975	8,509 (4)	84,030	18,235	12,593	171,773	11,508	873,199
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	276,961	11,876	1,135,063
1974	493,223	64,036	13,805	84,661	102,949	24,757	17,748	269,776	10,131	1,081,086

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(1) Data not available
(2) Includes Alaska
(3) Includes Alaska and Hawaii
(4) Includes gas turbine plants in 1968 and subsequent years

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

Section VII
Table 10a

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils(5)	Industrial Use(6)	Oil Company Fuel	Electric Utility Company(7)	Railroads	Vessels Bunkering	Military Use(8)	Diesel	All Other	Total
1975	488,388	63,993	13,633	63,420	92,191	26,138	18,004	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	360,799	14,059	1,257,061
1979	454,955(9)	99,583	22,043	46,579	103,493	41,725	18,570	392,614	34,812	1,214,374
1980	393,112	86,089	24,205	31,812	102,022	35,201	19,138	375,136	19,994	1,086,709
1981	345,728	80,216	29,185	18,192	100,482	41,025	17,763	378,853	21,032	1,032,476
1982	324,912	71,340	29,482	12,134	93,150	33,885	15,201	375,124	19,639	974,864
1983	311,289	69,332	29,957	11,744	91,681	33,785	15,925	399,013	19,201	981,927

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(5) Includes range oil

(6) Excludes oil company use

(7) Includes kerosine-type jet fuel: 1976 — 11,600 bbls. per day; 1977 — 18,770 bbls. per day; 1978 -- 12,342 bbls. per day.

(8) Includes imports by military

(9) Beginning in 1979, heating oils is no longer a separate category. The figure is derived by adding residential, commercial and farming.

Source: 1975-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178	4,202
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	574	695
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34	95
Arkansas	2,253	2,080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346	474
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287	78,774
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603	1,790
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814	14,450
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063	6,081
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450	2,387
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,343	28,909	32,236	34,910	36,228	37,470	33,310	28,978
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824	6,413
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--	5,613
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185	201
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689	25,893
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035	12,885
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088	1,021
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943	2,249
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570	321
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764	8,599
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433	5,742
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385	16,490
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532	38,942
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498	11,242
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399	6,393
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435	339
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129	3,026
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006	2,002
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218	378
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146	202
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984	2,324
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,339	46,154	44,587	45,136	36,841	41,422	42,971
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107	173
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784	76,586
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908	4,537
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597	663
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,206	18,530	9,721	11,028	11,382
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319	1,396
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121	5,453
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660	42,731
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11,127	10,350	9,502
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,985	4,291	4,389	4,383	4,660	4,886	4,634
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48	60
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284	184
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275	22,102
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872	5,562
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275	498
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703	17,448
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162	9,179
West Virginia	828	1,171	1,366	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620	1,451
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167	4,275
Wyoming	2,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842	1,738
U.S. Total	520,529	506,497	494,933	554,208	563,338	556,273	564,729	520,714	556,983	561,538	543,950	531,367	554,352	550,536

Source: Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual.

Section VII
Table 11a

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	3,555	2,749	3,184	2,274	2,459	2,752	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,549	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	10,042	11,148	10,748	10,656
Florida	32,600	37,044	36,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	2,638	2,131	2,335	2,400	3,252	2,623	3,371	3,379	3,640	3,615	2,904	2,552
Montana	2,533	3,049	2,836	2,356	1,195	1,371	1,189	1,495	1,524	1,249	1,236	1,485
Nebraska	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	311	323	209	146	655	363	111	90	95	215	466	621
New York	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	873	967	797	825	795	637	776	866	683	744	637	1,355
Oregon	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	52,489	60,389	59,973	58,490
Rhode Island	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	171	105	275	287	276	331	465	334	786	596	365	523
Texas	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	540	629	607	413	937	1,048	504	547	677	903	898	954
Virginia	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S. Total	**542,986**	**548,433**	**538,522**	**556,632**	**574,118**	**613,972**	**639,539**	**669,484**	**722,629**	**804,287**	**838,044**	**925,647**

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

Section VII
Table 11b

U.S. DELIVERIES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	6,151	10,496	13,220	14,684	16,272	16,443	11,294	8,820	4,686	6,350	5,118
Alaska	1,051	1,098	1,104	1,342	1,738	2,595	321	397	249	301	337
Arizona	4,288	6,943	5,182	4,108	7,478	3,413	5,032	1,046	227	297	88
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747	11,813	5,472	2,449	1,803	1,283
California	121,059	105,314	113,782	136,080	180,436	140,595	160,428	162,365	126,463	81,392	58,706
Colorado	2,317	3,177	3,591	3,903	3,502	4,091	1,041	1,373	165	14	13
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325	27,241	28,209	21,951	21,349	22,311
Delaware	13,117	12,632	10,239	11,332	11,524	11,376	11,073	12,889	8,671	6,289	5,485
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235	767	444	389	1,527	1,064
Florida	82,873	75,440	78,885	92,171	85,323	91,175	98,722	96,955	90,347	63,079	54,415
Georgia	13,888	13,454	9,831	12,257	12,666	11,988	13,368	8,512	6,251	5,562	4,307
Hawaii	11,580	11,219	10,776	11,778	12,512	12,796	12,641	13,251	13,311	13,323	12,228
Idaho	243	597	703	803	697	1,003	580	460	55	223	202
Illinois	28,795	28,521	26,948	23,659	26,598	30,111	26,675	28,023	21,399	15,507	11,793
Indiana	15,536	16,078	14,052	19,188	19,447	19,004	16,271	14,335	7,638	4,856	4,231
Iowa	679	628	405	588	764	599	836	360	100	321	291
Kansas	2,847	2,660	5,945	6,416	6,307	6,686	4,830	1,046	697	993	760
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506	1,151	966	1,150	1,197	1,030
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252	63,359	72,686	55,687	48,260	38,254
Maine	19,860	15,272	10,064	13,116	12,234	11,415	10,738	8,413	10,090	15,803	12,670
Maryland	42,534	39,310	25,538	27,330	26,122	28,217	23,851	16,090	12,396	11,898	9,535
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208	58,958	52,948	49,673	42,762	34,810
Michigan	14,560	14,876	18,739	20,656	21,345	24,871	18,547	11,934	8,947	4,285	3,192
Minnesota	7,069	5,883	4,322	5,796	4,414	4,576	2,695	3,044	1,460	1,732	1,594
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308	24,740	17,459	9,725	5,570	4,326
Missouri	2,959	2,375	2,992	2,948	3,647	3,620	3,196	1,370	656	856	818
Montana	1,705	2,290	2,186	2,549	2,414	2,665	4,188	3,012	2,519	1,668	1,512
Nebraska	639	1,045	1,077	1,650	1,189	1,410	622	78	57	198	170
Nevada	612	690	1,456	649	1,455	2,756	1,541	2,503	250	119	39
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408	6,109	5,437	4,835	4,106	3,568
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726	60,980	53,167	38,279	34,241	28,095
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081	596	1,305	856	716	529
New York	169,669	155,327	146,837	157,812	157,773	153,037	130,344	112,872	97,868	90,073	79,354
North Carolina	15,393	13,819	7,786	12,667	14,499	12,814	11,889	9,114	5,677	5,971	4,372
North Dakota	898	1,190	1,101	1,045	889	950	801	701	1,130	1,171	954
Ohio	6,866	8,330	9,957	11,041	14,491	13,431	9,674	6,282	5,920	2,488	2,090
Oklahoma	1,629	1,201	752	683	661	987	820	719	745	700	603
Oregon	7,439	6,650	4,484	3,606	3,395	5,087	5,526	4,562	6,407	10,927	7,726
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366	45,365	34,777	30,340	20,789	24,008
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088	2,387	2,230	2,227	1,791	1,203
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579	11,249	7,127	5,142	2,965	2,255
South Dakota	234	137	153	299	260	213	166	115	161	51	44
Tennessee	650	883	734	3,085	3,404	2,529	2,276	1,472	1,239	748	647
Texas	29,208	36,891	41,072	44,195	52,178	63,634	73,206	73,189	68,671	62,069	50,898
Utah	3,649	4,295	4,698	4,917	4,565	4,441	2,374	2,584	1,064	886	802
Vermont	876	535	818	1,285	1,136	1,073	337	471	351	372	271
Virginia	46,123	43,274	40,015	40,108	41,171	37,371	34,020	24,704	13,072	9,591	7,328
Washington	10,986	10,365	8,627	7,675	9,683	12,647	13,893	17,332	16,505	14,029	8,791
West Virginia	1,448	1,709	1,847	4,146	4,039	3,082	1,982	1,465	1,001	1,443	1,050
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613	1,915	1,751	871	2,212	1,954
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090	2,182	1,630	2,009	1,634	1,481
U.S. Total	1,030,177	963,216	898,572	1,025,148	1,120,927	1,103,233	1,034,610	937,466	762,028	626,510	518,604

Source: 1973-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils	Military Use	Miscel-laneous Uses	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959(1)	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960(2)	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632

(1) Includes Alaska
(2) Includes Hawaii

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals

Section VII
Table 12a

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(1)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(3)	Military Use(2)	Miscel- laneous Uses	All Uses
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	63,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	838,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233
1979	190,543	486,636	245	51,062	198,759	82,729(3)	7,736	16,900	1,034,610
1980	213,131	390,105	665	59,519	163,564	98,034(3)	8,066	4,382	937,466
1981	188,632	325,486	178	51,870	117,024	67,035(3)	7,008	4,795	762,030
1982	152,586	227,419	170	45,319	122,619	65,781(3)	7,829	4,784	626,510
1983	136,290	204,238	140	32,820	89,573	46,743(3)	5,411	3,389	518,604

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(1) Beginning with 1967, represented use by electric public-utility plants only.
(2) Includes imports by military.
(3) Beginning in 1979, heating oil has been reclassified commercial and is a part of the total called "heating and industrial."

Source: 1965-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL--NAPHTHA TYPE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand[2]	Exports	Domestic Demand[2]
1965[1]	226	44	270	8,338	--	270	2	268
1966	245	35	280	7,235	-3	283	4	279
1967	300	15	315	9,037	+5	310	5	305
1968	332	19	351	8,904	--	351	5	346
1969	287	14	301	8,556	-1	302	5	297
1970	320	20	250	6,621	-5	255	6	249
1971	234	30	264	6,990	+1	263	3	260
1972	209	33	242	6,147	-2	244	2	242
1973	181	36	217	5,599	-2	219	2	217
1974	195	27	222	5,529	--	222	--	222
1975	180	28	208	5,222	-1	209	--	209
1976	187	15	202	6,495	+3	199	--	199
1977	186	21	207	6,285	-1	208	--	208
1978	179	19	198	5,958	-1	199	--	199
1979	176	22	198	5,599	-1	200	--	200
1980	188	31	219	6,308	+2	217	--	217
1981	193	7	200	7,054	+2	198	1	198
1982	201	5	206	5,667	- 4	210	1	209
1983	205	1	206	6,265	-2	208	1	207

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(1) Data prior to 1965 ar not available on a comparable basis.
(2) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statement.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL -- KEROSINE TYPE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1965(1)	298	37	335	10,361	—	335	1	334
1966	345	52	397	13,139	+ 5	392	1	391
1967	448	74	522	13,174	+ 3	519	1	518
1968	529	86	615	15,373	+ 6	609	—	609
1969	594	111	705	19,517	+11	694	--	694
1970	597	125	722	29,989	+ 4	718	—	718
1971	601	150	751	20,747	- 1	752	1	751
1972	638	162	800	19,346	- 3	803	—	803
1973	679	176	855	22,945	+10	845	3	842
1974	641	135	776	23,906	+ 3	773	2	771
1975	691	105	796	25,158	+ 3	793	2	791
1976	731	61	792	25,590	+ 1	791	2	789
1977	788	53	841	28,263	+ 8	833	2	831
1978	791	67	858	27,707	- 1	859	1	858
1979	835	56	891	32,921	+14	877	1	876
1980	811	49	860	35,723	+ 8	852	1	851
1981	775	31	806	34,011	- 5	811	1	809
1982	778	23	801	31,180	- 8	809	5	804
1983	817	29	846	32,346	+ 2	844	5	839

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(1) Data prior to 1965 are not available on a comparable basis.
(2) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	302	—	302	17,722	+ 1	301	20	281
1948	333	—	333	23,941	+17	316	9	307
1949	280	—	280	20,888	- 8	288	7	281
1950	325	—	325	19,723	- 3	328	5	323
1951	372	—	372	27,088	+16	356	19	337
1952	351	—	351	26,529	- 1	352	21	331
1953	337	—	337	28,684	+ 4	333	19	314
1954	335	—	335	27,826	- 2	337	13	324
1955	326	—	326	26,770	- 3	329	9	320
1956	342	—	342	31,420	+12	330	9	321
1957	303	—	303	29,200	- 6	309	14	295
1958	305	—	305	26,040	- 8	313	3	310
1959 (1)	305	—	305	26,856	+ 1	304	3	301
1960 (2)	374	—	374	31,445	+10	364	2	362
1961	391	8	399	32,433	+ 3	396	1	395
1962	431	18	449	31,725	- 2	451	1	450
1963	454	24	478	34,102	+ 4	474	2	472
1964	463	31	494	36,165	+ 6	488	—	488
1965 (3)	259	—	259	24,080	- 9	268	1	267
1966	279	1	280	25,004	+ 2	278	1	277
1967 (4)	274	—	274	25,366	—	274	—	274
1968	278	—	278	23,480	- 5	283	2	281
1969	282	3	285	26,780	+ 9	276	1	275
1970	262	4	266	27,848	+ 3	263	—	263
1971	240	1	241	24,438	- 9	250	1	249
1972	219	1	220	19,111	-16	236	—	236
1973	220	2	222	21,022	+ 6	216	—	216
1974	156	5	161	15,269	-15	176	—	176

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(1) These figures and those for subsequent years are on a 50 state basis.
(2) These figures and those through 1964 include commercial jet fuel.
(3) These figures and those for subsequent years exclude kerosine-type jet fuel.
(4) Beginning with 1967 production at refineries and at plants are combined in one total.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(1)	Exports	Domestic Demand
1975	152	3	155	15,571	- 4	159	—	159
1976	152	9	161	12,514	- 8	169	—	169
1977	171	19	190	18,056	+15	175	—	175
1978	154	11	165	14,330	-10	175	—	175
1979	183	9	192	15,824	+ 4	189	--	189
1980	137	10	147	11,570	-12	159	—	159
1981	119	7	126	11,042	- 1	127	—	127
1982	115	13	128	10,420	- 2	130	1	129
1983	110	11	121	7,861	- 8	129	1	127

(1) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

Section VII
Table 16

U.S. SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports[1]	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	413	—	413	4,295	- 2	415	17	398
1948	464	—	464	6,172	+ 3	461	14	447
1949	494	—	494	7,358	+ 2	491	15	476
1950	578	—	578	8,012	+ 2	576	7	569
1951	651	—	651	8,854	+ 2	649	10	639
1952	695	—	695	8,445	- 1	696	11	685
1953	745	—	745	11,220	+ 8	737	11	726
1954	785	—	785	14,979	+11	774	12	762
1955	890	—	890	14,596	- 1	891	12	879
1956	942	—	942	21,952	+20	922	12	910
1957	954	—	954	23,480	+ 4	950	13	937
1958	965	—	965	24,959	+ 8	957	8	949
1959[2]	1,067	—	1,067	27,407	+ 7	1,060	5	1,055
1960	1,141	5	1,146	32,554	+14	1,132	8	1,124
1961	1,207	5	1,212	43,365	+29	1,183	10	1,173
1962	1,232	6	1,238	36,154	-20	1,258	11	1,247
1963	1,359	7	1,366	37,633	+ 4	1,362	12	1,350
1964	1,446	11	1,457	39,371	+ 5	1,452	15	1,437
1965	1,502	21	1,523	39,542	—	1,523	22	1,501
1966	1,575	29	1,604	43,759	+12	1,592	24	1,568
1967	1,715	27	1,742	69,947	+74	1,668	25	1,643
1968	1,826	32	1,858	81,086	+32	1,826	29	1,797
1969	1,928	35	1,963	65,306	-45	2,008	35	1,973
1970	2,005	52	2,057	74,089	+25	2,032	27	2,005
1971	2,050	106	2,156	100,889	+73	2,083	26	2,057
1972	2,100	174	2,274	91,792	-25	2,299	31	2,268
1973	2,113	239	2,352	106,476	+41	2,311	27	2,284
1974	2,026	211	2,237	120,092	+37	2,200	25	2,175

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(1) Prior to 1960 figures included with gasoline.
(2) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

U.S. TOTAL SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	1,944	185	2,129	132,653	+34	2,095	26	2,069
1976	1,944	197	2,141	124,518	-22	2,163	25	2,138
1977	1,970	203	2,173	144,902	+56	2,117	18	2,099
1978	1,921	139	2,060	140,052	-42	2,101	20	2,081
1979	1,924	230	2,154	125,289	-40	2,187	15	2,172
1980	1,897	216	2,113	137,551	+34	2,079	21	2,058
1981	1,905	254	2,159	150,170	+11 (1)	2,148	42	2,106
1982	1,809	247	2,056	105,077	-124	2,180	65	2,115
1983	1,875	205	2,080	116,532	+470	1,610	73	1,537

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(1) The U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 146,145 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	141	—	141	8,624	+ 2	139	41	98
1948	140	—	140	9,843	+ 5	135	37	98
1949	124	—	124	9,219	- 2	126	35	91
1950	141	—	141	7,849	- 4	145	39	106
1951	168	—	168	9,617	+ 4	164	48	116
1952	151	—	151	11,021	+ 3	148	44	104
1953	144	—	144	10,070	- 2	146	35	111
1954	145	—	145	9,702	- 1	146	41	105
1955	153	—	153	8,763	- 3	156	39	117
1956	161	—	161	10,183	+ 3	158	38	120
1957	152	—	152	10,864	+ 1	151	38	113
1958	140	—	140	9,687	- 3	143	35	108
1959(1)	154	—	154	8,950	- 2	156	38	118
1960	162	—	162	9,874	+ 2	160	43	117
1961	162	—	162	12,943	+ 2	160	47	113
1962	168	—	168	13,130	—	168	48	120
1963	173	—	173	14,321	+ 3	170	50	120
1964	174	—	174	14,062	- 1	175	50	125
1965	172	—	172	13,304	- 2	174	45	129
1966	179	—	179	12,682	- 2	181	47	134
1967	178	—	178	14,774	+ 6	172	51	121
1968	180	—	180	14,023	- 2	182	49	133
1969	178	1	179	14,088	—	179	45	134
1970	181	1	182	14,712	+ 2	180	44	136
1971	179	—	179	15,049	+ 1	178	43	135
1972	179	1	180	13,271	- 5	185	41	144
1973	188	6	194	12,186	- 3	197	35	162
1974	194	5	199	16,060	+11	188	33	155

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(1) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 17a

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(1)	Exports	Domestic Demand
1975	154	3	157	14,337	-5	162	25	137
1976	169	4	173	12,274	-5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	-	198	27	171
1979	194	9	203	12,549	+1	202	23	179
1980	178	7	185	13,483	+3	182	23	160
1981	166	8	174	14,304	+2	172	19	153
1982	141	10	151	12,531	-5	156	16	140
1983	147	11	158	12,080	-3	162	16	146

(1) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

BASIC PETROLEUM DATA BOOK

SECTION VIII. REFINING

Table 1. Estimated Worldwide Crude Oil Refining Capacity by Area

Table 2 Worldwide Crude Oil Refinery Runs

Table 3. U.S. Crude Oil Refining Capacity

Table 4. Percentage Yields of Refined Petroleum Products From Crude Oil in the United States

Table 5. U.S. Crude Oil Refinery Runs by P.A.D. District-Domestic vs. Foreign

Table 6. Number and Capacity of U.S. Petroleum Refineries

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States(1)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000(2)	9,119,034
1948	6,034,252	1,479,350	7,513,602	859,100	47,750	202,850	682,990	9,306,292	650,000(2)	9,956,292
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000(2)	11,109,245
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	11,361,500
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000(2)	12,023,744
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100(2)	12,979,085
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	14,247,520
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	15,391,577
1955	8,386,044	2,566,500	10,952,544	1,184,300	68,400	613,700	2,365,900	15,184,844	1,784,000	16,968,844
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	17,290,336
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	18,676,397
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	(3)	(3)
1959	8,761,446	3,680,500	13,441,946	1,432,800	100,100	1,229,600	3,633,200	19,837,646	(3)	(3)
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	23,830,324
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	(3)	(3)
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	(3)	(3)
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	(3)	(3)
1964	10,305,774	5,828,400	15,134,174	1,801,300	365,200	2,537,000	6,263,500	26,101,174	(3)	(3)
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	33,088,751
1966	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	34,296,439
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	(3)	(3)
1968	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	41,343,204
1969	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	45,194,209
1970	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	48,355,873
1971	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	53,183,528
1972	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	56,845,268
1973	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	59,282,384
1974	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	64,118,536
1975	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	67,551,454

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(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
(2) Estimates for U.S.S.R. only
(3) Data not available

Source: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States(1)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	71,809,515
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	75,180,964
1978	17,047,724	10,592,020	27,352,020	3,506,484	1,467,157	10,176,819	20,728,204	63,352,984	13,938,000	77,290,984
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	78,289,132
1980	17,988,121	10,683,671	28,671,792	3,518,080	1,666,108	10,386,375	20,243,747	64,486,102	15,346,000	79,832,102
1981	18,620,520	10,716,881	29,337,401	3,729,646	1,697,658	10,554,691	20,205,799	65,524,895	16,036,500	81,561,395
1982	17,889,734	10,720,055	28,609,789	3,312,152	1,761,870	10,966,825	19,444,519	64,095,155	16,533,000	80,628,155
1983	16,859,337	9,873,816	26,733,153	3,685,333	1,882,105	10,902,204	17,124,989	60,327,784	16,873,000	77,200,784
1984	16,137,141	9,590,962	25,520,962	3,901,082	1,879,990	10,473,079	16,231,932	58,114,186	17,200,000	75,314,186

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(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity

Source: 1976-1984: United States: U.S. Energy Information Administration, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue

Section VIII
Table 2

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416
Canada	975	1,040	1,070	1,135	1,190	1,280	1,395	1,535	1,675	1,765	1,700	1,710
Latin America	3,905	4,030	4,170	4,350	4,590	4,905	5,295	5,445	5,970	5,890	5,515	5,670
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020
South Asia	270	300	370	420	505	525	545	540	590	550	485	550
South East Asia	515	610	635	890	920	1,020	1,265	1,385	1,705	1,560	1,545	1,865
Japan	1,370	1,650	2,005	2,540	2,995	3,470	3,855	3,850	4,430	4,300	4,090	4,305
Australasia	375	415	465	500	510	565	565	575	620	625	635	655
Total Non-Communist World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575
Total World	30,508	32,959	35,230	38,592	41,649	45,515	48,090	50,471	54,926	54,423	52,902	56,691

Source: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

Section VIII
Table 2a

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1977	1978	1979	1980	1981(r)	1982	1983
United States	14,602	14,739	14,648	13,483	12,477	11,774	11,685
Canada	1,805	1,820	1,960	2,085	1,945	1,650	1,570
Latin America	5,715	5,975	6,220	6,460	6,575	6,080	5,825
Western Europe	13,550	13,505	14,160	12,925	11,890	11,480	11,075
Middle East	2,240	2,535	2,365	2,445	2,205	2,245	2,515
Africa	1,130	1,260	1,355	1,460	1,525	1,735	1,920
South Asia	605	645	675	705	795	840	880
South East Asia	2,030	2,330	2,450	2,370	2,480	2,335	2,335
Japan	4,375	4,240	4,340	4,015	3,630	3,360	3,240
Australasia	680	690	700	640	655	625	600
Total Non-Communist World	46,738	47,780	48,873	46,898	44,192	42,125	41,175
Communist Nations	11,930	12,875	13,230	13,320	13,420	13,575	13,675
Total World	58,668	60,655	62,103	60,218	57,590	55,700	54,850

Source: 1977-1983: U.S.-Energy Information Administration
Rest of World - BP Statistical Report of the World Oil Industry, Annual Report

U.S. CRUDE OIL REFINING CAPACITY
(AS OF JANUARY 1)

Year	NUMBER OF REFINERIES Operating	Shutdown	Total	CRUDE OIL THROUGHPUT CAPACITY Operating	Operable Shutdown	Inoperable Shutdown(1)
1947	361	38	399	5,336,399	233,083(2)	
1948	352	38	390	5,825,566	208,686(2)	
1949	336	39	375	6,230,505	208,490(2)	
1950	320	47	367	6,222,998	473,302(2)	
1951	325	32	357	6,701,815	261,829(2)	
1952	327	23	350	7,161,366	171,519(2)	
1953	315	28	343	7,481,701	138,019	18,941
1954	308	29	337	7,782,103	201,874	22,920
1955	296	30	326	8,069,154	316,890	34,586
1956	294	24	318	8,380,801	201,835	49,754
1957	298	21	319	8,808,841	262,856	51,977
1958	289	29	318	8,939,907	418,400	49,400
1959	291	22	313	9,450,741	310,705	58,400
1960	290	20	310	9,543,329	299,295	58,800
1961	289	22	311	9,629,685	368,888	11,500
1962	287	24	311	9,812,248	220,799	72,100
1963	287	21	308	9,814,791	196,130	107,400
1964	282	22	304	10,063,164	242,610	79,600
1965	273	27	300	10,161,311	258,540	354,744
1966	267	19	286	10,171,159	222,680	98,900
1967	260	21	281	10,412,447	245,960	101,200
1968	270	21	291	11,172,694	180,710	179,450
1969	264	20	284	11,575,829	126,480	37,200
1970	262	19	281	11,882,393	138,880	53,050
1971	253	26	279	12,658,248	201,980	159,750
1972	250	32	282	13,034,818	257,650	145,000
1973	253	28	281	13,482,909	188,475	132,200
1974	257	27	284	14,220,316	141,220	127,900
1975	262	28	290	14,696,750	263,960	208,100

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(1) Facilities inoperable, needing extensive reconditioning
(2) Not identified separately prior to 1953

Source: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual

U.S. CRUDE OIL REFINING CAPACITY(1)
(AS OF JANUARY 1)

	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY		
Year	Operating	Shutdown(3)	Total	Operating	Operable Shutdown	Inoperable Shutdown(2)
1976	265	22	287	14,867,529	369,092	190,900
1977	273	18	291	15,861,735	536,637	211,500
1978	290	12	302	16,793,724	254,000	182,223
1979	301	10	311	17,147,875	293,010	103,500
1980	311	8	319	17,612,652	376,469	N.A.
1981	315	9	324	18,051,260	569,260	N.A.
1982	254	47	301	16,103,579	1,786,155	N.A.
1983	233	25	258	14,960,647	1,898,690	N.A.
1984	214	33	247	14,837,685	1,299,456	N.A.

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(1) Does not include Puerto Rico refineries
(2) Facilities inoperable, needing extensive reconditioning
(3) Figures beginning with 1980 are for operable shutdown only

Source: U.S. Energy Information Administration, "Petroleum Refineries in the United States and U.S. Territories" Annual
Formerly Titled, "Petroleum Refineries in the United States and Puerto Rico" Annual
1982-1984: U.S. Energy Information Administration, Petroleum Supply Annual

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES-ANNUALLY 1964-1977

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6
Ethane (including Ethylene)	(2)	(2)	(2)	(2)	(2)	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0
Shortage(3)	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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(1) Other unfinished oils added to crude oil in computing yield

(2) Included with liquefied gases

(3) Processing Gain(-) or Loss(+)

Source: U.S. Energy Information Administration

Section VIII
Table 4a

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES

	1978	1979	1980	1981	1982	1983
Gasoline	44.1	43.0	44.5	44.8	46.2	47.6
Jet Fuel	6.6	6.9	7.4	7.6	8.1	8.5
Ethane (including Ethylene)	0.1	0.1	-	0.1	-	-
Liquefied Gases	2.3	2.3	2.4	2.4	2.2	2.7
Kerosine	1.0	1.3	1.0	0.9	0.9	0.9
Distillate Fuel Oil	21.4	21.5	19.7	20.5	21.5	20.5
Residual Fuel Oil	11.3	11.5	11.7	10.4	8.8	7.1
Petrochemical Feedstocks	4.1	4.7	5.1	4.7	3.4	3.3
Special Naphthas	0.7	0.6	0.7	0.6	0.4	0.5
Lubricants	1.3	1.3	1.3	1.3	1.2	1.2
Wax	0.1	0.1	0.1	0.1	0.1	0.1
Coke	2.5	2.6	2.7	3.1	3.4	3.5
Asphalt	3.2	3.1	2.9	2.7	2.7	3.1
Road Oil	0.1	-	0.1	-	-	(4)
Still Gas	3.7	3.8	4.0	4.3	4.6	4.6
Miscellaneous	0.9	0.8	0.8	0.7	0.7	0.5
Shortage(2)	-3.4	-3.6	-4.4	-4.0	-4.4	-4.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

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(1) Other unfinished oils added to crude oil in computing yield
(2) Processing Gain (-) or Loss (+)
(3) Totals may not add due to independent rounding
(4) Included in asphalt.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual

Section VIII
Table 5

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT-DOMESTIC vs FOREIGN
(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL	
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1947	648	265	1,312	-	1,889	2	133	-	826	-	4,808	267
1948	640	326	1,418	-	2,154	13	151	-	895	-	5,258	339
1949	486	374	1,404	-	1,973	46	165	-	876	3	4,904	423
1950	545	459	1,594	-	2,053	23	185	-	880	-	5,257	482
1951	641	477	1,796	1	2,398	10	215	-	947	10	5,997	498
1952	618	517	1,845	3	2,463	12	223	-	958	31	6,107	563
1953	601	552	1,949	7	2,601	8	235	-	975	71	6,361	638
1954	549	585	1,953	7	2,594	12	238	-	970	51	6,304	655
1955	530	633	2,119	18	2,832	30	255	-	968	95	6,704	776
1956	559	669	2,224	54	3,010	32	268	(1)	943	178	7,004	933
1957	640	656	2,219	60	2,898	24	273	(1)	900	249	6,930	989
1958	555	644	2,224	71	2,760	43	266	(1)	892	188	6,697	946
1959	574	641	2,340	59	2,922	27	290	(1)	902	238	7,028	965
1960	550	667	2,349	66	2,978	6	285	(1)	891	275	7,053	1,014
1961	573	650	2,347	86	3,020	6	284	(1)	910	308	7,134	1,050
1962	546	668	2,366	97	3,174	4	303	(1)	898	354	7,287	1,123
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195
1965	489	711	2,533	112	3,506	(1)	317	13	957	405	7,802	1,241
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120
1968	596	707	2,744	214(2)	4,116	2	339	27	1,243	324	9,038	1,274
1969	560	749	2,773	240(2)	4,263	(1)	351	35	1,267	391	9,214	1,415
1970	706	584	2,844	310(2)	4,357	-	345	47	1,297	380	9,549	1,321
1971	649	682	2,853	377(2)	4,438	54	360	45	1,239	503	9,539	1,661
1972	347	971	2,850	461(2)	4,741	75	360	37	1,193	661	9,491	2,205
1973	237	1,264	2,774	711(2)	4,656	398	372	44	1,167	808	9,206	3,225
1974	236	1,173	2,654	679(2)	4,317	786	376	44	1,098	770	8,681	3,452
1975	166	1,242	2,637	775(2)	4,078	1,182	380	45	1,086	851	8,347	4,095

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(1) Less than 1,000 barrels daily
(2) Includes some Athabasca hydrocarbons

Source: Bureau of Mines, Annual Petroleum Statements

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT-DOMESTIC vs FOREIGN
(Thousands of barrels per day)

Year	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1976	170	1,416	2,611	989(2)	3,957	1,760	391	50	1,038	1,034	8,167	5,249
1977	136	1,538	2,386	1,393	3,886	2,460	426	54	1,199	1,124	8,033	6,569
1978	205	1,513	2,392	1,416	3,802	2,636	433	54	1,660	627	8,493	6,246
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379
1980	221	1,233	2,098	1,198	3,645	2,298	394	47	1,903	445	8,261	5,221
1981(3)	205	1,126	2,181	785	3,630	1,951	390	33	1,900	300	8,306	4,195
1982	211	982	2,161	621	3,876	1,522	374	41	1,888	191	8,510	3,357

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(2) Includes some Athabasca hydrocarbons.

(3) Beginning with 1981, figures are for refinery receipts of crude oil

Source: U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual
1981-1982--U.S. Energy Information Administration, Petroleum Supply Annual

NUMBER AND CAPACITY OF U.S. PETROLEUM REFINERIES
As of January 1, 1984

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled)	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle[1]	Operating	Idle	Operating	Idle							
East Coast	16	14	2	1,298,850	105,200	1,374,500	113,500	775,400	92,500	554,300	88,100	406,700	74,000	1,050,256
Delaware	1	1	0	140,080	0	150,000	0	95,000	44,000	60,000	15,000	56,000	19,000	110,000
Georgia	2	2	0	28,500	0	31,800	0	0	0	0	0	0	0	0
Maryland	1	0	1	0	14,200	0	15,000	14300	0	0	0	0	0	0
New Jersey	5	5	0	414,400	88,000	441,700	95,000	290,100	34,500	229,000	45,000	125,500	0	433,500
New York: East	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	1	0	1	0	3,000	0	3,500	0	0	0	0	0	0	0
Pennsylvania: East	4	4	0	622,100	0	652,000	0	320,000	0	237,300	23,100	216,200	55,000	478,000
Virginia	1	1	0	52,000	0	54,000	0	29,000	14,000	28,000	5,000	9,000	0	26,500
Appalachian #1	10	7	2	110,206	64,200	115,000	66,333	72,900	0	41,000	200	38,920	4,440	85,820
New York: West	1	0	1	0	64,000	0	66,000	25,000	0	23,000	0	11,500	0	47,000
Pennsylvania: West	6	5	1	96,041	200	100,000	333	38,900	0	18,000	200	23,870	0	38,820
West Virginia	2	2	0	14,165	0	15,000	0	9,000	0	0	0	3,550	4,440	0
PAD District I Total	25	21	4	1,409,056	189,400	1,489,500	179,833	848,300	92,500	595,300	88,300	445,620	78,440	1,136,076
Appalachian #2	1	1	0	66,000	0	68,000	0	33,000	0	25,000	0	20,000	0	50,000
Ind., Ill., Ky.	29	25	4	2,176,500	152,200	2,298,200	161,000	932,500	203,700	886,700	72,700	648,900	148,500	1,156,300
Illinois	8	8	0	860,500	105,000	911,200	111,000	381,300	97,300	374,000	17,400	310,400	66,500	574,800
Indiana	6	5	1	467,300	1,000	495,600	2,000	247,200	20,000	167,000	8,200	107,500	0	232,500
Kentucky	5	3	2	221,900	25,800	229,800	27,000	103,000	59,000	110,000	0	49,000	0	156,300
Michigan	4	4	0	117,100	0	124,600	0	26,000	0	45,000	1,300	33,000	0	22,700
Ohio: West	5	4	1	449,700	20,400	472,000	21,000	163,000	27,400	160,700	33,800	139,700	82,000	140,500
Tennessee	1	1	0	60,000	0	65,000	0	12,000	0	30,000	12,000	9,300	0	29,500
Minn., Wisc., Daks.	5	5	0	300,973	2,750	311,220	3,000	147,000	49,500	113,500	7,200	73,800	0	212,450
Minnesota	2	2	0	204,143	0	211,220	0	132,000	48,000	78,000	1,000	52,000	0	178,200
North Dakota	2	2	0	57,830	2,750	60,000	3,000	0	1,500	26,000	5,200	12,000	0	16,950
Wisconsin	1	1	0	39,000	0	40,000	0	15,000	0	9,500	1,000	9,800	0	17,300
Okla., Kansas, Mo.	17	16	1	737,177	49,800	781,983	53,000	267,800	95,000	309,400	19,200	195,300	8,190	310,290
Kansas	7	7	0	322,027	0	346,383	0	100,500	49,000	133,400	11,800	86,300	3,190	144,790
Oklahoma	10	9	1	415,150	49,800	435,600	53,000	167,300	46,000	176,000	7,400	109,000	5,000	165,500
PAD District II Total	52	47	5	3,280,650	204,750	3,459,403	217,000	1,380,300	348,200	1,334,600	99,100	938,000	156,690	1,729,040
Texas Inland	19	16	3	569,150	34,650	598,924	36,300	170,475	24,800	225,700	25,900	150,900	0	277,400
Texas Gulf Coast	26	22	4	3,515,824	326,000	3,710,694	349,900	1,737,200	335,000	1,376,700	132,000	967,500	139,000	2,803,450
Louisiana Gulf Coast	21	17	4	2,358,500	180,256	2,451,633	201,967	1,093,500	456,100	823,400	48,300	565,800	168,700	1,253,000
Alabama: Gulf	2	1	1	41,300	65,300	42,000	67,300	30,000	0	0	0	21,000	0	48,000
Louisiana: Gulf	18	15	3	2,022,200	114,956	2,099,633	134,667	820,500	394,100	767,400	46,300	454,800	100,700	1,016,000
Mississippi: Gulf	1	1	0	295,000	0	310,000	0	243,000	62,000	56,000	2,000	90,000	68,000	189,000
North La., Ark.	18	14	4	209,800	87,880	224,015	94,641	121,195	18,500	34,000	7,775	41,700	0	82,000
Alabama: Inland	3	2	1	37,500	11,000	40,500	12,000	21,000	10,000	0	0	6,000	0	20,500
Arkansas	4	4	0	53,000	12,480	54,350	12,900	32,020	0	18,000	775	9,000	0	18,000
Louisiana: Inland	6	5	1	72,500	35,900	78,165	39,300	24,300	0	0	0	20,900	0	32,200
Mississippi: Inland	5	3	2	46,800	28,500	51,000	30,441	43,875	8,500	16,000	7,000	5.800	0	11,300
New Mexico	6	5	1	106,930	2,200	113,192	2,400	21,900	0	26,700	5,850	18,200	0	37,700
PAD District III Total	90	74	16	6,760,204	630,986	7,098,458	685,208	3,144,270	834,400	2,486,500	219,825	1,744,100	307,700	4,453,550
Colorado	3	3	0	71,600	0	92,200	0	37,000	4,000	23,000	1,000	20,400	6,000	28,900
Montana	6	5	1	135,150	13,400	139,950	14,000	41,000	9,200	52,100	6,500	41,100	4,900	121,700
Utah	8	6	2	155,000	14,400	161,500	15,700	47,500	8,500	54,800	10,600	21,350	1,200	38,100
Wyoming	6	5	1	166,855	200	172,000	500	75,400	9,000	61,000	15,700	31,250	0	48,800
PAD District IV Total	23	19	4	528,605	28,000	565,650	30,200	200,900	30,700	190,900	33,800	114,100	12,100	237,500
Alaska	4	4	0	135,500	0	141,553	0	0	0	0	0	12,000	7,500	0
California	43	39	4	2,257,270	266,320	2,402,646	294,100	1,357,200	501,800	589,450	27,550	552,830	343,400	1,263,472
Hawaii	1	1	0	48,000	0	50,000	0	28,000	0	22,000	0	0	0	3,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	15,000	0	16,000	0	16,000	0	0	0	0	0	0
Washington	7	7	0	398,900	0	424,954	0	188,000	44,000	91,500	23,000	100,800	46,000	185,800
PAD District V Total	57	53	4	2,859,170	266,320	3,039,853	294,100	1,591,700	545,800	702,950	50,550	665,630	396,900	1,462,772
United States Total	247	214	33	14,837,685	1,299,456	15,652,864	1,406,341	7,165,470	1,851,600	5,310,250	491,575	3,907,450	951,830	9,008,938

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[1] Refineries where distillation units are completely idle but not permanently shutdown on January 1, 1984.

Source: U.S. Energy Information Administration, Petroleum Supply Annual

SECTION IX. IMPORTS

Table 1. The Share of Imports in U.S. Domestic Petroleum Demand

Table 2. Total U.S. Imports of Petroleum and Petroleum Production

Table 3. U.S. Crude Oil Imports by Area

Table 4. U.S. Imports of Crude Petroleum by Country of Origin

Table 5. U.S. Imports of Crude Oil by P.A.D. Districts

Table 6. U.S. Imports of Residual and Distillate Fuel by P.A.D. Districts

Table 7. U.S. Imports of Unfinished Oils and Refined Products by P.A.D.

Table 8. Total U.S. Petroleum Imports by Source

Table 9. U.S. Direct Petroleum Imports From Members of the Organization of Arab Petroleum Exporting Countries, September 1973-April 1974

Table 10. World Oil Movements

Section IX
Table 1

THE SHARE OF IMPORTS IN U.S. DOMESTIC PETROLEUM DEMAND

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1947	159,389	1,989,803	8.0
1948	188,144	2,113,678	8.9
1949	235,559	2,118,250	11.1
1950	310,261	2,392,974	13.0
1951	308,194	2,578,766	11.9
1952	348,507	2,668,134	13.1
1953	377,499	2,776,778	13.6
1954	383,955	2,833,896	13.5
1955	455,564	3,089,348	14.7
1956	525,591	3,214,651	16.3
1957	574,589	3,221,949	17.8
1958	620,589	3,327,993	18.6
1959	649,583	3,477,173	18.7
1960	664,111	3,585,820	18.5
1961	699,666	3,641,280	19.2
1962	759,793	3,796,029	20.0
1963	774,713	3,921,364	19.8
1964	826,736	4,034,236	20.5
1965	900,772	4,202,039	21.4
1966	939,162	4,410,796	21.3
1967	925,991	4,584,526	20.2
1968	1,039,369	4,901,789	21.2
1969	1,155,551	5,159,930	22.4
1970	1,248,062	5,364,473	23.3
1971	1,432,880	5,552,560	25.8
1972	1,735,314	5,990,316	29.0
1973	2,283,493	6,317,303	36.1
1974	2,230,947	6,078,239	36.7
1975	2,210,335	5,957,515	37.1
1976	2,676,411	6,390,750	41.9
1977	3,207,106(1)	6,727,468	47.7
1978	2,993,847(1)	6,879,017	43.5
1979	3,062,053(1)	6,757,077	45.3
1980	2,512,636(1)	6,242,445	40.3
1981	2,095,122(1)	5,861,058	35.7
1982	1,866,358(1)	5,582,938	33.4
1983	1,758,457(1)	5,559,364	31.6

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(1) Excludes crude oil imports into Strategic Petroleum Reserve: 1977 - 7,540: 1978 - 58,798: 1979 - 23,434: 1980 - 16,067: 1981 - 93,298: 1982 - 60,193: 1983 - 85,285

Source: U.S. Energy Information Administration: Annual Petroleum Statements.
1981-1983 - U.S. Energy Information Administration: Petroleum Supply Annual and Petroleum Supply Monthly

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

	IMPORTS					Production		
Year	Crude Oil	Unfinished Oils	Plant Condensate	Refined Products	Total All Imports	Crude Oil and Condensate	Natural Gas Liquids	Total
1947	97,532	(1)	(2)	61,857	159,389	1,856,987	132,173	1,989,160
1948	129,093	(1)	(2)	59,051	188,144	2,020,185	146,721	2,168,906
1949	153,686	(1)	(2)	81,873	235,559	1,841,940	157,086	1,999,026
1950	177,714	(1)	(2)	132,547	310,261	1,973,574	181,961	2,155,535
1951	179,073	(1)	(2)	129,121	308,194	2,247,711	204,754	2,452,465
1952	209,591	(1)	(2)	138,916	348,507	2,289,836	223,515	2,513,351
1953	236,455	(1)	(2)	141,044	377,499	2,357,082	238,579	2,595,661
1954	239,479	(1)	(2)	144,476	383,955	2,314,988	252,133	2,567,121
1955	285,421	(1)	(2)	170,143	455,564	2,484,428	281,371	2,765,799
1956	341,833	(1)	(2)	183,758	525,591	1,617,283	292,727	2,910,010
1957	373,255	(1)	(2)	201,334	574,589	2,616,901	294,990	2,911,891
1958	348,007	(1)	(2)	272,582	620,589	2,448,987	294,749	2,743,736
1959	352,344	23,072	(2)	274,167	649,583	2,574,590	320,757	2,895,347
1960	371,575	16,478	(2)	276,058	664,111	2,574,933	340,157	2,915,090
1961	381,548	25,348	(2)	292,770	699,666	2,621,758	361,689	2,983,447
1962	411,039	32,516	(2)	316,238	759,793	2,676,189	372,705	3,048,894
1963	412,660	31,702	(2)	330,351	774,713	2,752,723	400,886	3,153,609
1964	438,643	32,587	(2)	355,506	826,736	2,786,822	422,471	3,209,293
1965	452,040	33,706	(2)	415,026	900,772	2,848,514	441,556	3,290,070
1966	447,120	35,236	(2)	456,806	939,162	3,027,763	468,635	3,496,398
1967	411,649	35,225	(2)	479,117	925,991	3,215,742	514,456	3,730,198
1968	472,323	29,350	(2)	537,696	1,039,369	3,329,042	550,311	3,879,353
1969	514,114	38,766	(2)	602,671	1,155,551	3,371,751	580,241	3,951,992
1970	483,293	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366
1971	613,417	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729
1972	811,135	45,705	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584
1973	1,183,996	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326
1974	1,269,155	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683

(1) Separate data not available prior to 1959
(2) Separate data not available prior to 1970

SOURCE: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

	IMPORTS					Production		
Year	Crude Oil	Unfinished Oils	Plant Condensate	Refined Products	Total All Imports	Crude Oil and Condensate	Natural Gas Liquids	Total
1975	1,498,181	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737
1976	1,935,012	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225
1977	2,414,327(3)	11,239	15,003	774,077	3,214,646	3,009,265	590,455	3,599,720
1978	2,319,826(3)	9,913	6,017	716,889	3,052,645	3,178,216	572,086	3,750,302
1979	2,379,541(3)	21,372	4,729	680,825	3,086,487	3,121,310	578,023	3,699,333
1980	1,926,162(3)	20,015	3,781	598,745	2,528,703	3,146,365	575,787	3,722,152
1981	1,604,703(3)	40,793	3,658	583,716	2,188,419	3,128,624	587,119	3,715,743
1982	1,273,214(3)	63,657	2,292	593,144	1,866,358	3,156,715	565,876	3,722,591
1983	1,215,225(3)	85,580	2,355	540,584	1,843,744	3,170,999	568,926	3,739,925

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(3) Includes SPR crude oil imports--1977-7,540: 1978-58,798: 1979-23,434: 1980-16,067: 1981-93,298: 1982-60,193: 1983-85,285

SOURCE: U.S. Energy Informaton Administration, Annual Petroleum Statement.
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1947	97,146	--	386	--	97,532
1948	105,912	--	23,181	--	129,093
1949	116,736	--	36,950	--	153,686
1950	136,096	--	41,618	--	177,714
1951	138,074	--	37,501	3,498	179,073
1952	147,771	--	56,556	5,264	209,591
1953	141,552	--	80,930	13,969	236,451
1954	148,010	--	77,764	13,705	239,479
1955	173,166	--	100,344	11,941	285,451
1956	225,007	--	103,517	13,309	341,833
1957	261,736	--	87,798	23,719	373,253
1958	199,256	--	123,091	25,732	348,079
1959	212,707	--	115,875	23,762	352,344
1960	230,229	1,451	113,175	26,720	371,575
1961	237,995	1,887	118,997	22,669	381,548
1962	267,680	9,808	109,071	24,480	411,039
1963	278,933	9,173	103,214	21,340	412,660
1964	289,012	17,743	108,841	23,047	438,643
1965	283,377	24,585	121,908	22,170	452,040
1966	289,800	31,543	107,579	18,198	447,120
1967	301,002	20,151	67,977	22,519	411,649
1968	315,977	57,461	72,330	26,555	472,323
1969	337,847	82,380	61,616	32,271	514,114
1970	351,366	44,365	61,892	25,670	483,293
1971	378,102	68,361	124,155	42,779	613,397
1972	421,799	172,105	155,982	61,249	811,135
1973	532,238	285,481	292,988	73,289	1,183,996
1974	446,534	356,121	362,186	104,314	1,269,155

Source: U.S. Bureau of Mines, Crude Petroleum, Petroleum products and Natural Gas Liquids, Annual and December issues.

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1975	453,772	488,515	409,496	146,398	1,498,181
1976	316,202	716,661	681,189	220,965	1,935,012
1977	328,468	912,631	910,744	262,484	2,414,327
1978	345,624	830,773	832,305	311,124	2,319,826
1979	436,525	910,644	765,249	267,123	2,379,541
1980	379,813	731,342	561,248	253,759	1,926,162
1981	352,373	486,768	447,518	318,044	1,604,703
1982	430,885	282,706	248,560	311,163	1,273,214
1983	497,237	247,555	160,221	310,213	1,215,225

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

Section IX
Table 4

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Argentina	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--	--	268	545	--
Canada	--	--	--	--	463	1,116	2,527	2,565	16,810	42,739	55,131	30,426	33,730	41,349
Chile	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Colombia	10,944	8,542	11,678	16,159	16,312	16,209	15,860	12,415	8,125	9,009	8,366	9,411	12,437	14,799
Curacao and Aruba	5,125	4,707	613	611	--	--	--	371	487	--	--	--	--	--
Ecuador	--	--	--	--	--	--	90	300	474	368	933	--	--	--
Mexico	5,578	3,601	4,797	12,307	13,862	8,483	2,897	3,018	5,510	4,666	2,441	672	112	925
Peru	--	--	--	--	--	--	--	608	855	609	--	192	--	--
Trinidad	--	--	--	--	--	--	--	356	121	566	1,111	120	--	269
Venezuela	75,499	89,062	99,648	107,019	107,437	121,963	120,178	128,377	140,754	167,050	193,756	158,167	165,883	172,887
Total Western Hemisphere	97,146	105,912	116,736	136,096	138,074	147,771	141,552	148,010	173,136	225,007	261,738	199,256	212,707	230,229
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	284
Angola	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--	--	--	1,167
Gabon	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tunisia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	1,451
Abu Dhabi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iran	--	4,507	1,107	111	--	--	--	204	3,202	7,257	6,624	5,348	8,961	13,056
Iraq	--	766	341	--	--	705	2,287	2,188	6,988	9,650	4,477	8,972	7,667	6,363
Kuwait	111	3,442	23,445	26,741	21,601	26,444	38,611	41,046	48,954	50,953	51,389	68,098	59,169	47,512
Neutral Zone	--	--	--	--	--	--	--	2,983	6,639	3,072	2,050	12,007	15,091	16,363
Qatar	--	--	--	116	--	--	3,368	3,524	5,511	4,915	2,247	1,513	231	1,649
Saudi Arabia	275	14,466	12,057	14,650	15,900	29,407	36,668	27,819	29,050	27,670	21,011	27,081	24,756	28,232
Total Middle East	386	23,181	36,950	41,618	37,501	56,556	80,934	77,764	100,344	103,517	87,798	123,019	115,875	113,175
Borneo	--	--	--	--	3,498	1,624	--	--	--	--	--	4,679	3,739	--
Australia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia (Sumatra)	--	--	--	--	--	3,640	13,969	13,705	11,941	13,309	23,719	21,053	20,023	26,720
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Far East	--	--	--	--	3,498	5,264	13,969	13,705	11,941	13,309	23,719	25,732	23,762	26,720
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	386	23,181	36,950	41,618	40,999	61,820	94,903	91,469	112,285	116,826	111,517	148,751	139,637	141,346
ANNUAL TOTAL	97,532	129,093	153,686	177,714	179,073	209,591	236,455	239,479	285,421	341,833	373,255	348,007	352,344	371,575

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IX
Table 4a

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Argentina	--	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	1,237	7,016	6,866	5,596	534	798
Brazil	1,773	1,277	2,052	--	--	--	--	--	--	--	--
Canada	66,614	85,152	90,394	101,607	107,762	126.712	150,409	169,418	203,298	245,258	263,294
Chile	--	--	--	--	--	--	633	1,975	1,464	--	261
Colombia	10,050	8,614	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175
Curacao and Aruba	--	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	--	--	--	--
Mexico	3,655	3,644	3,657	3,577	2,552	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	—	216	--	--
Trinidad	152	--	--	--	--	--	--	--	--	265	--
Venezuela	155,751	168,993	174,537	174,012	157,852	147,427	131,089	125,737	111,722	97,996	110,574
Total Western Hemisphere	237,995	267,680	278,933	289,167	283,377	289,800	301,002	315,977	337,847	351,366	378,102
Algeria	--	1,543	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685
Angola	--	--	--	--	--	--	--	--	424	--	1,301
Egypt	1,887	1,543	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924
Gabon	--	--	--	--	--	--	661	--	--	--	--
Libya	--	6,722	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426
Nigeria	--	--	--	--	5,296	4,114	1,432	3,131	17,958	17,490	34,826
Tunisia	--	--	--	--	--	--	--	--	--	--	1,199
Total Africa	1,887	9,808	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361
Abu Dhabi/ United Arab Emirates(5)	--	--	--	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026
Iran	21,970	17,735	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576
Iraq	7,362	856	321	--	5,695	9,447	1,716	--	--	--	3,932
Kuwait	44,311	40,749	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650
Neutral Zone	19,278	15,837	15,855	17,565	9,756	7,028	4,006	10,749	15,864	--	--
Qatar	3,575	9,535	5,835	7,294	4,346	176	--	--	191	--	--
Saudi Arabia	22,501	24,359	28,806	35,464	48,235	45,771	29,679	18,959	12,665	14,538	41,971
Total Middle East	118,997	109,071	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155
Australia	--	--	--	--	--	--	--	--	--	--	2,567
Indonesia (Sumatra)	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232
Malaysia	--	--	--	--	--	--	--	--	--	--	--
Total Far East	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	143,553	143,359	133,727	149,631	168,663	157,320	110,647	156,346	176,267	131,927	235,315
ANNUAL TOTAL	381,548	411,039	412,660	438,643	452,040	447,120	411,649	472,323	514,114	483,293	613,417

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(5) Figures from 1947-1971 reflect Abu Dhabi only. Beginning 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates.

Source: U.S. Bureau of Mines, December and Annual Petroleum Statements

Section IX
Table 4b

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Bolivia	--	891	2,467	1,940	1,849	1,271	308	328	301	--	--
Canada	312,440	365,370	288,763	219,175	135,690	101,778	90,490	99,081	73,002	59,904	78,041
Colombia	1,695	778	--	--	2,041	--	--	--	--	--	--
Ecuador	5,331	17,229	15,225	20,679	18,671	20,229	13,910	11,010	6,129	13,967	11,788
Mexico	--	489	597	25,660	31,670	64,711	115,426	159,616	185,541	171,363	235,298
Trinidad	8,626	21,739	23,045	42,097	38,142	48,841	51,974	44,950	42,011	37,186	33,541
Venezuela	93,300	125,742	116,437	144,221	88,139	91,331	66,125	106,794	56,950	53,590	56,434
Total Western Hemisphere	421,799	532,238	446,534	453,772	316,202	328,468	345,624	436,525	379,813	352,373	430,885
United Kingdom	--	--	--	125	4,923	35,583	61,555	71,923	63,459	134,766	161,061
Netherlands	--	--	--	1,500	--	1,509	846	2,685	22	1	3
Norway	--	--	322	4,552	12,881	17,628	37,815	27,523	52,727	41,452	37,299
Total Europe	--	--	322	6,177	17,804	54,720	100,216	102,131	116,208	176,315	198,365
Algeria	31,573	43,619	65,764	96,459	149,190	198,468	231,253	222,042	166,980	95,165	32,714
Angola	5,785	17,753	17,536	26,051	2,426	6,150	2,290	14,088	13,389	16,528	15,248
Congo (Brazzaville)	--	--	--	--	3,142	2,440	5,454	909	2,658	1,276	456
Egypt	3,091	5,296	3,227	1,687	6,311	13,034	7,395	20,205	11,249	12,155	14,683
Gabon	--	--	8,552	9,811	9,685	12,632	13,841	15,328	9,062	12,663	14,429
Libya	40,069	48,585	1,495	81,403	162,457	256,984	232,897	234,173	200,406	115,572	8,452
Nigeria	88,887	163,687	254,358	272,265	370,962	412,498	332,035	390,116	307,840	222,981	186,329
Tunisia	2,520	6,541	4,519	839	5,400	10,425	4,460	6,429	2,801	4,104	3,481
Zaire	--	--	--	--	7,088	--	263	1,379	4,690	5,977	6,914
Total Africa	172,105	285,481	356,121	488,515	716,661	912,631	830,773	910,644	731,342	486,768	282,706
United Arab Emirates	26,873	25,764	25,158	42,585	93,105	121,640	140,653	102,709	63,052	27,950	29,509
Iran	49,700	78,990	168,956	101,575	109,073	193,415	202,357	108,269	3,086	--	12,854
Iraq	1,315	1,529	--	707	9,542	26,894	22,673	32,052	10,328	--	974
Israel	--	--	--	--	2,368	--	--	--	--	--	--
Kuwait	13,205	15,208	1,820	1,444	451	15,434	1,718	1,898	9,712	--	904
Oman	--	--	--	492	10,943	27,140	22,240	13,466	8,693	8,702	8,183
Qatar	1,263	2,663	6,189	6,657	8,631	24,281	23,224	11,450	7,920	2,665	2,600
Saudi Arabia	63,626	168,525	159,827	256,036	447,071	501,072	416,910	491,514	457,671	406,059	193,536
Total Middle East	155,982	292,988	362,186	409,496	681,184	910,744	832,305	765,249	561,248	447,518	248,560
Australia	327	--	--	--	--	--	--	--	--	--	--
Indonesia	59,633	73,055	103,482	138,270	196,599	184,984	194,620	138,528	114,990	116,126	82,315
Malaysia	966	234	510	1,951	5,914	20,257	13,677	18,954	22,213	12,143	6,574
Total Far East	60,926	73,289	103,992	140,221	202,513	207,089	210,632	159,933	137,551	128,269	90,023
U.S.S.R.	323	--	--	--	648	675	276	--	--	--	--
Total Eastern Hemisphere	389,336	651,758	822,621	1,044,409	1,618,810	2,085,859	1,974,202	1,943,016	1,546,349	1,252,330	842,429
ANNUAL TOTAL	811,135	1,183,996	1,269,155	1,498,181	1,935,012	2,414,327	2,319,826	2,379,541	1,926,162	1,604,703	1,273,214

Source: Energy Information Administration, Annual Petroleum Statements.
1981-1982 — Energy Information Administration, Petroleum Supply Annual.

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1983
Bolivia	1,361
Canada	100,142
Colombia	0
Ecuador	20,594
Mexico	279,703
Trinidad & Tobago	30,207
Venezuela	59,854
Total Western Hemisphere	497,237
United Kingdom	133,142
Netherlands	1,039
Norway	23,836
Total Europe	193,529
Algeria	64,274
Angola	25,763
Congo	6,616
Egypt	8,958
Gabon	21,415
Libya	0
Nigeria	109,807
Tunisia	2,564
Zaire	8,158
Total Africa	247,555
United Arab Emirates	6,641
Iran	15,757
Iraq	3,758
Israel	0
Kuwait	2,641
Oman	12,281
Qatar	0
Saudi Arabia	117,325
Total Middle East	160,221
Australia	0
Indonesia	115,156
Malaysia	930
Total Far East	116,683
U.S.S.R.	0
Total Eastern Hemisphere	717,988
ANNUAL TOTAL	1,215,225

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual

Section IX
Table 5

U.S. IMPORTS OF CRUDE OIL BY P.A.D. DISTRICTS
(Thousands of Barrels)

Year	P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil
1952(1)	192,349	1,116	4,423	--	11,703	209,591
1953	202,611	2,562	2,871	--	28,411	236,455
1954	213,413	2,772	4,553	--	18,741	239,479
1955	232,850	7,425	11,098	--	34,048	285,421
1956	244,453	19,904	11,917	70	65,489	341,833
1957	247,395	22,296	8,726	86	94,749	373,255
1958	238,769	25,328	16,242	13	67,655	348,007
1959	235,259	21,279	10,184	15	85,607	352,344
1960	244,196	23,265	2,939	20	101,155	371,575
1961	236,905	30,971	2,354	30	111,288	381,548
1962	244,235	34,646	2,489	682	128,987	411,039
1963	248,199	34,666	1,698	3,528	124,569	412,660
1964	252,527	37,801	1,835	4,409	142,071	438,643
1965	258,361	41,264	--	4,807	147,608	452,040
1966	259,499	48,114	449	4,954	134,104	447,120
1967	216,920	56,408	672	6,648	131,001	411,649
1968	263,866	78,365	741	10,058	119,393	472,323
1969	269,007	88,434	--	12,714	143,959	514,114
1970	211,403	115,613	--	17,573	138,704	483,293
1971	252,088	137,064	20,449	16,869	186,947	613,417
1972	354,549	171,338	28,331	14,126	242,791	811,135
1973	466,074	260,368	145,654	16,132	295,768	1,183,996
1974	428,608	250,771	289,999	16,579	283,198	1,269,155
1975	451,549	282,658	437,049	16,090	310,835	1,498,181
1976	517,840	366,107	651,381	19,878	379,806	1,935,012
1977(2)	553,955	516,775	927,596	15,957	400,044	2,414,327
1978(2)	542,856	494,132	1,045,691	18,132	219,015	2,319,826
1979(2)	522,580	556,861	1,083,749	23,656	192,695	2,379,541
1980(2)	491,292	409,533	854,233	14,268	156,836	1,926,162
1981(2)	407,384	248,393	828,287	10,513	110,126	1,604,703
1982(2)	349,583	211,727	628,591	14,625	68,687	1,273,214
1983(2)	298,070	193,427	632,974	13,959	76,794	1,215,225

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(1) Figures not available by P.A.D.D. prior to 1952.

(2) Figures include crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Bureau of Mines, 1952-1972 Minerals Yearbook
U.S. Energy Information Administration 1973-1980 Annual Petroleum Statements
U.S. Energy Information Administration 1981-1983 — Petroleum Supply Annual

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of Barrels)

Year(2)	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel
1950	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	120,036	2,602
1951	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	119,166	1,767
1952	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	128,479	2,742
1953	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	131,533	3,379
1954	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	129,124	3,195
1955	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	152,035	4,413
1956	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	162,869	5,159
1957	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	173,229	8,566
1958	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	182,306	14,892
1959	219,341	17,283	230	13	2,981	360	1	2	18	0	222,571	17,658
1960	211,788	11,365	59	12	14,416	1,298	0	96	6,945	0	233,208	12,771
1961	214,453	15,533	284	24	12,320	1,654	1	142	16,210	24	243,268	17,377
1962	237,565	9,811	610	31	11,775	1,892	47	92	14,317	5	264,314	11,831
1963	252,785	7,787	800	63	12,327	1,250	26	1	6,815	9	272,753	9,110
1964	274,306	10,559	804	64	11,204	1,119	45	0	9,412	43	295,771	11,785
1965	318,634	11,041	1,188	17	14,598	1,811	43	0	10,724	133	345,187	13,002
1966	357,907	12,548	860	107	11,708	967	55	0	6,265	223	376,795	13,845
1967	383,260	16,851	587	224	7,475	891	60	0	4,557	526	395,939	18,492
1968	394,528	45,502	573	360	8,271	1,290	54	0	6,502	996	409,928	48,148
1969	440,983	47,720	627	1,264	12,167	937	78	0	7,756	962	461,611	50,883
1970	536,968	49,333	4,207	2,223	11,029	1,192	52	0	5,589	1,078	557,845	53,826
1971	558,771	53,373	3,953	258	6,553	1,079	41	0	8,382	1,073	577,700	55,783
1972	616,990	64,302	5,458	473	6,212	1,191	0	0	8,741	483	637,401	66,449
1973	639,611	125,210	6,068	1,353	10,471	12,406	0	104	20,075	4,076	676,225	143,149
1974	538,573	95,018	7,919	621	11,806	6,766	--	32	20,859	3,142	579,157	105,579

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(1) Figures not available by P.A.D. prior to 1959.
(2) Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands.

Source: U.S. Bureau of Mines. 1950-1972, Minerals Yearbook
1973-1974, Crude Petroleum, Petroleum Products, and Natural Gas Liquids: Annual and December issues

Section IX
Table 6a

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year[2]	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel
1975	416,105	54,300	14,015	223	3,957	1,441	--	1	12,451	713	446,528	56,678
1976	495,980	49,225	11,720	97	1,728	680	--	--	7,897	3,518	517,325	53,520
1977	467,124	88,171	11,754	55	818	413	--	--	16,369	2,673	496,065	91,318
1978	468,937	59,023	17,101	306	939	210	--	--	7,663	3,749	494,640	63,288
1979	392,861	64,091	14,267	70	2,044	1,568	—	4	10,972	4,756	420,144	70,489
1980	317,157	48,518	10,754	--	6,485	1,268	—	--	9,161	2,122	343,557	51,908
1981	260,156	59,180	8,592	5	14,055	2,634	—	2	9,266	1,251	292,070	63,070
1982	235,912	29,763	3,966	392	35,700	1,526	9	4	7,514	2,355	283,101	34,040
1983	222,276	56,129	5,375	3,075	19,555	2,189	193	488	7,814	1,660	255,213	63,542

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(2) Figures include receipts from Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

Section IX
Table 7

U.S. IMPORTS OF UNFINISHED OILS AND REFINED PRODUCTS BY P.A.D. DISTRICTS(2)
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products
1959(1)	16,628	264,347	587	606	2,148	4,861	--	31	3,709	4,322	23,072	274,167
1960	9,534	248,388	520	1,019	994	16,788	--	121	5,430	9,742	15,478	276,058
1961	18,045	256,484	1,184	1,324	145	15,258	--	180	5,974	19,524	25,348	292,770
1962	22,297	279,475	360	1,746	1,616	15,101	--	154	8,243	19,672	32,516	316,238
1963	21,779	299,530	476	2,193	2,102	14,952	--	39	7,345	13,637	31,702	330,351
1964	21,151	321,994	478	3,552	1,011	13,117	--	159	9,947	16,684	32,587	355,506
1965	23,260	369,760	213	5,739	377	18,073	--	727	9,856	20,727	33,706	415,026
1966	26,743	410,435	43	7,276	15	13,826	--	971	8,435	24,298	35,236	456,806
1967	23,222	434,265	20	7,171	276	9,873	--	879	11,707	26,929	35,225	479,117
1968	21,987	489,628	1	7,573	109	10,618	--	2,253	7,253	27,624	29,350	537,696
1969	28,975	543,947	51	8,245	1,034	15,087	--	2,979	8,706	32,413	38,766	602,671
1970	30,221	651,123(3)	--	20,022(3)	913	21,191	--	3,192(3)	8,127	29,980(3)	39,261	725,508(3)
1971	30,651	685,309(3)	--	22,918(3)	2,217	17,425	--	7,786(3)	12,325	43,832(3)	45,193	777,270(3)
1972	30,715	761,491(3)	--	39,798(3)	1,548	16,474	--	16,623(3)	13,442	44,088(3)	45,705	878,474(3)
1973	26,216	874,707(3)	739	53,985(3)	10,681	45,714	--	16,285(3)	12,525	58,645(3)	50,161	1,049,336
1974	14,084	757,416(3)	1,155	49,860(3)	19,208	43,356(3)	--	14,143(3)	9,781	52,789(3)	44,228	917,564(3)
1975	6,038	578,739(3)	392	49,345(3)	4,170	15,989(3)	--	12,327(3)	2,385	42,769(3)	12,985	699,169(3)
1976	7,721	619,068	16	34,334	3,750	13,382	--	5,888(3)	248	32,584	11,735	705,256
1977	9,333	665,984	15	43,912	905	17,422	--	5,922	986	40,659	11,239	773,899
1978	9,022	614,132	15	45,676	226	8,427	--	4,635	650	43,998	9,913	716,868
1979	7,945	545,758	338	68,663	7,687	21,135	--	4,737	5,402	40,532	21,372	680,825
1980	11,489	446,336	217	68,505	5,855	25,986	--	5,222	2,454	32,696	20,015	578,745
1981	18,096	392,310	396	69,554	19,442	39,355	--	7,877	2,858	33,827	40,792	542,923
1982	23,182	355,073	2,708	65,611	35,027	63,820	--	7,141	2,741	37,842	63,657	529,487
1983	32,030	390,381	4,120	62,081	47,060	50,025	604	6,981	1,765	33,471	85,580	542,938

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(1) Figures not available by P.A.D. district prior to 1959.
(2) Figures include receipts from Puerto Rico and Virgin Islands.
(3) Includes plant condensate.

Source: U.S. Department of Interior, 1959-1972, Minerals Yearbook
Department of Energy, 1973-1980, Annual Petroleum Statements.
1981-1983, Petroleum Supply Annual.

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels Per Day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
WESTERN HEMISPHERE													
Bahamas	--	--	--	--	--	--	--	--	--	--	--	1	--
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69
Ecuador	--	--	--	--	--	--	--	--	--	--	--	--	--
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41
Neth. Antilles	273	338	324	300	264	297	312	333	361	332	361	392	450
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876
Virgin Islands	--	--	--	--	--	--	--	--	--	--	36	78	116
Other	5	11	8	2	10	9	21	10	11	21	41	46	34
Total	1,265	1,267	1,356	1,399	1,493	1,660	1,726	1,815	1,967	2,066	2,145	2,264	2,481
EASTERN HEMISPHERE													
Abu Dhabi/United Arab Emirates (1)	--	--	--	--	--	--	--	3	14	13	5	16	14
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89
Italy	--	8	4	1	--	--	--	1	2	18	28	49	75
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46
Iraq	--	--	--	--	--	--	--	--	--	--	--	--	--
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39
Libya	--	--	--	--	--	19	19	39	41	69	42	114	135
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	15	11	5	8	49
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	25	81	83	81	103	94	82	93	85	91	70	140	196
Total	309	433	424	416	424	422	397	443	501	507	392	576	685
TOTAL U.S. IMPORTS	1,574	1,700	1,780	1,815	1,917	2,082	2,123	2,258	2,468	2,573	2,537	2,840	3,166

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(1) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Bureau of Mines

Section IX
Table 8a

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels Per Day)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
WESTERN HEMISPHERE													
Bahamas	32	150	174	174	164	152	116	167	160	147	76	74	65
Canada	767	857	1,108	1,325	1,070	846	599	516	467	538	455	447	482
Colombia	45	27	16	9	5	9	21	17	20	18	4	--	--
Ecuador	--	--	--	48	42	57	51	55	54	42	27	48	42
Mexico	42	27	21	16	8	71	87	179	318	439	533	522	685
Neth. Antilles	442	429	424	585	511	332	275	214	229	231	225	197	175
Puerto Rico	87	95	102	99	90	90	88	105	94	92	88	62	50
Trinidad	217	182	226	255	251	242	273	286	253	190	176	133	112
Venezuela	983	1,019	960	1,135	979	702	699	687	646	690	481	406	412
Virgin Islands	189	273	303	329	391	406	422	466	428	431	388	327	316
Other	52	18	61	28	21	44	44	16	33	50	59	79	84
Total	2,856	3,077	3,395	4,033	3,532	2,951	2,675	2,708	2,701	2,868	2,512	2,216	2,423
EASTERN HEMISPHERE													
Abu Dhabi/United Arab Emirates(1)	63	80	73	71	74	117	254	333	385	281	172	81	92
Algeria	8	15	92	135	190	282	432	552	649	636	488	311	170
Indonesia	70	111	164	213	300	389	539	533	573	420	348	366	248
Italy	83	79	83	125	74	27	37	51	38	30	4	--	--
Iran	38	112	142	223	469	280	298	530	555	304	9	--	35
Iraq	--	11	4	4	--	3	26	76	62	88	28	--	3
Kuwait	36	36	45	47	5	16	5	48	6	8	27	--	5
Libya	47	57	123	164	4	232	453	715	654	658	554	319	26
Malaysia	N.A.	N.A.	1	12	12	8	18	63	42	66	70	36	20
Netherlands	N.A.	N.A.	12	53	43	18	8	31	5	23	2	30	35
Nigeria	50	103	251	459	713	762	1,025	1,135	919	1,080	857	620	514
Norway	N.A.	N.A.	2	1	1	17	36	50	104	75	144	119	102
Oman	N.A.	N.A.	N.A.	N.A.	1	2	30	79	68	44	25	24	22
Qatar	--	--	3	7	17	18	24	67	64	31	22	7	7
Saudi Arabia	42	127	190	486	461	715	1,230	1,377	1,144	1,356	1,261	1,129	552
United Kingdom	N.A.	N.A.	10	9	8	11	31	124	180	202	176	375	456
Other	134	143	152	244	207	208	174	272	324	286	209	363	403
Total	563	848	1,347	2,253	2,579	3,105	4,620	6,036	5,662	5,588	4,396	3,780	2,690
TOTAL U.S. IMPORTS	3,419	3,925	4,742	6,256	6,111	6,056	7,295	8,744	8,363	8,456	6,908	5,996	5,113

N.A. Not available on individual country basis, included in "Other."

(1) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts", Annual Reports.
U.S. Energy Information Administration, 1981-1982 — Petroleum Supply Annual.

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels per Day)

	1983
WESTERN HEMISPHERE	
Bahamas	125
Canada	547
Colombia	--
Ecuador	61
Mexico	826
Neth. Antilles	189
Puerto Rico	40
Trinidad	96
Venezuela	422
Virgin Islands	282
Other	114
Total	2,702
EASTERN HEMISPHERE	
Abu Dhabi/United Arab Emirates	30
Algeria	240
Indonesia	338
Italy	--
Iran	48
Iraq	10
Kuwait	14
Libya	--
Malaysia	4
Netherlands	65
Nigeria	302
Norway	66
Oman	34
Qatar	--
Saudi Arabia	337
United Kingdom	382
Other	479
Total	2,349
TOTAL U.S. IMPORTS	5,051

SOURCE: U.S. Energy Information Administration: Petroleum Supply Annual

Section IX
Table 9

U.S. DIRECT PETROLEUM IMPORTS FROM MEMBERS OF THE ORGANIZATION OF ARAB PETROLEUM EXPORTING COUNTRIES
SEPTEMBER 1973 - APRIL 1974
(Thousands of Barrels)

OAPEC MEMBERS	SEPTEMBER 1973			OCTOBER 1973			NOVEMBER 1973			DECEMBER 1973		
	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
2. Bahrain	--	38	38	--	589	589	--	552	552	--	99	99
3. Egypt	--	--	--	--	--	--	--	--	--	--	--	--
4. Iraq	515	--	515	364	--	364	--	--	--	--	--	--
5. Kuwait	1,334	--	1,334	1,724	--	1,724	--	--	--	--	--	--
6. Libya	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
7. Qatar	1,222	--	1,222	543	--	543	273	--	273	74	--	74
8. Saudi Arabia	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	2,652	--	2,652	1,920	3	1,923	3,197	--	3,197	--	1	1
OAPEC TOTAL	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
U.S. TOTAL	104,117	88,227	192,344	115,905	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
OAPEC AS A % OF U.S. TOTAL	30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

OAPEC MEMBERS	JANUARY 1974			FEBRUARY 1974			MARCH 1974			APRIL 1974		
	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	--	--	--	75	--	75	244	--	244	3,448	141	3,589
2. Bahrain	--	--	--	--	3	3	--	--	--	--	--	--
3. Egypt	--	--	--	--	--	--	--	--	--	543	--	543
4. Iraq	--	--	--	--	--	--	--	--	--	--	--	--
5. Kuwait	--	--	--	--	--	--	--	--	--	62	--	62
6. Libya	29	--	29	468	--	468	142	--	142	244	--	244
7. Qatar	--	--	--	--	--	--	--	--	--	--	--	--
8. Saudi Arabia	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	304	--	304	--	--	--	--	--	--	405	--	405
OAPEC TOTAL	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
U.S. TOTAL	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
OAPEC AS A % OF U.S. TOTAL	1.3%	0.1%	0.6%	2.6%	*	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

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* Less than one-tenth of one percent
(1) Less than 1/2 unit

Source: U.S. Bureau of Mines and U.S. Bureau of Census

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1972

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	30	70	65	--	10	40	5	5	--	225
Canada	1,085	--	--	--	--	--	--	--	--	--	1,085
Caribbean	2,270	520	160	545	5	10	10	--	--	100	3,620
Other Western Hemisphere	45	--	25	--	--	--	30	--	--	--	1,000
Western Europe	160	15	--	--	40	--	--	--	20	90	325
Middle East	475	250	1,115	8,570	460	1,265	3,770	260	605	180	16,950
North Africa	230	30	250	2,730	10	--	5	--	220	--	3,475
West Africa	265	70	290	1,170	--	--	70	--	30	20	1,915
South East Asia	180	--	10	5	10	--	830	55	--	--	1,090
USSR, Eastern Europe	20	--	130	970	75	--	25	--	40	--	1,260
Other Eastern Hemisphere	10	--	--	5	--	30	5	--	--	--	50
TOTAL IMPORTS	4,740	915	2,050	14,060	600	1,315	4,785	320	920	390	30,095

1973

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination not known	Total Exports
United States	--	30	55	85	5	25	30	--	--	--	230
Canada	1,335	--	--	--	--	--	--	--	--	--	1,335
Caribbean	2,540	500	130	355	5	5	10	--	--	85	3,630
Other Western Hemisphere	80	--	100	--	--	--	--	--	--	20	200
Western Europe	265	--	--	--	60	--	--	--	10	70	405
Middle East	820	320	1,000	10,350	535	1,315	4,385	290	775	180	19,970
North Africa	360	40	175	2,545	5	--	20	--	265	10	3,420
West Africa	515	90	415	1,030	--	--	110	--	5	--	2,165
South East Asia	240	--	--	10	--	--	1,115	40	--	--	1,405
USSR, Eastern Europe	35	--	145	935	75	5	55	--	20	15	1,285
Other Eastern Hemisphere	15	--	--	--	--	25	35	--	5	5	85
TOTAL IMPORTS	6,205	980	2,020	15,310	685	1,375	5,760	330	1,080	385	34,130

*Includes quantities in transit, transit losses, minor movements not otherwise shown, military uses, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10a

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1974

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	30	60	75	5	5	35	10	--	--	220
Canada	1,025	--	--	20	--	--	--	--	--	--	1,045
Caribbean	2,320	430	155	320	10	--	10	--	--	--	3,245
Other Western Hemisphere	125	--	120	--	--	--	--	--	--	--	245
Western Europe	240	--	--	--	80	--	15	--	35	95	465
Middle East	1,025	400	1,265	10,195	490	1,320	4,050	285	715	305	20,050
North Africa	230	15	130	1,915	10	--	70	--	255	--	2,625
West Africa	795	15	305	1,300	--	30	100	--	--	--	2,545
South East Asia	315	--	45	5	--	--	990	45	--	--	1,400
USSR, E. Europe & China	30	--	160	1,010	60	--	120	--	20	--	1,400
Other Eastern Hemisphere	20	--	--	--	--	30	40	--	--	--	90
TOTAL IMPORTS	6,125	890	2,240	14,840	655	1,385	5,430	340	1,025	400	33,330

1975

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Total Exports
United States	---	20	65	70	5	---	30	10	10	210
Canada	800	---	---	---	---	---	---	---	---	800
Latin America	2,270	270	120	380	40	---	20	---	75	3,175
Western Europe	45	---	---	---	165	---	---	---	35	245
Middle East	1,140	540	1,525	8,815	475	1,450	3,675	255	630	18,505
North Africa	500	---	140	1,530	---	---	70	---	165	2,405
West Africa	850	20	200	835	---	---	70	---	---	1,975
East and South Africa	---	---	---	---	---	35	---	---	---	35
South Asia	---	---	---	5	---	---	---	---	---	5
South East Asia	400	---	80	---	10	---	885	80	---	1,455
Japan	---	---	---	5	---	---	---	---	---	5
Australasia	5	---	---	---	---	10	35	---	---	50
USSR, E. Europe & China	15	---	210	970	15	70	160	---	30	1,470
TOTAL IMPORTS	6,025	850	2,340	12,610	710	1,565	4,945	345	945	30,335

*Includes quantities in transit, transit losses, minor movements not otherwise shown, military use, etc.

SOURCE: BP Statistical Review of World Energy

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1976

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	10	70	80	10	5	30	5	10	--	220
Canada	595	--	--	5	--	--	--	--	--	--	600
Latin America	2,010	320	140	335	10	--	10	5	30	450	3,310
Western Europe	160	--	--	--	100	--	--	--	85	--	345
Middle East	1,910	385	1,725	9,405	490	1,630	3,955	255	710	390	20,855
North Africa	915	20	160	1,680	15	10	45	--	225	--	3,070
West Africa	1,085	30	230	860	--	--	25	--	--	--	2,230
East and South Africa	--	--	--	--	--	30	--	--	--	--	30
South East Asia	585	--	15	5	--	--	1,080	80	--	--	1,765
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	40	--	--	--	55
USSR, E. Europe & China	20	--	160	1,355	20	100	135	--	25	--	1,815
TOTAL IMPORTS	7,290	765	2,500	13,725	645	1,785	5,320	345	1,085	840	34,300

1977

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	25	105	75	5	--	30	5	5	--	250
Canada	540	--	--	--	--	--	--	--	--	--	540
Latin America	2,205	290	110	290	45	--	10	--	65	100	3,115
Western Europe	250	--	10	--	130	5	--	5	80	--	480
Middle East	2,560	395	1,570	8,855	485	1,600	4,095	240	805	125	20,730
North Africa	1,320	--	150	1,735	5	--	25	--	60	--	3,295
West Africa	1,220	--	275	845	--	--	--	--	30	--	2,370
East and South Africa	--	--	--	--	--	20	--	--	--	--	20
South Asia	--	--	--	--	--	--	--	--	--	--	--
South East Asia	590	--	--	20	5	--	1,155	90	5	50	1,915
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	45	--	--	--	60
USSR, E. Europe & China	15	--	180	1,475	5	120	150	--	30	--	1,975
TOTAL IMPORTS	8,710	710	2,400	13,295	680	1,755	5,510	340	1,080	275	34,755

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.
SOURCE: BP Statistical Review of World Energy

Section IX
Table 10c

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1978

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	90	90	85	10	5	30	5	50	--	365
Canada	445	--	--	--	--	--	--	--	--	--	445
Latin America	2,225	290	360	345	25	--	15	--	40	100	3,400
Western Europe	375	--	--	--	135	--	--	--	40	--	550
Middle East	2,300	275	1,525	8,685	425	1,610	4,010	250	515	135	19,730
North Africa	1,310	--	200	1,770	15	--	10	--	65	--	3,370
West Africa	975	--	300	780	60	--	--	--	--	--	2,115
East and South Africa	--	--	--	5	--	5	--	--	--	--	10
South Asia	--	--	--	5	--	--	--	--	--	--	5
South East Asia	570	--	--	20	15	--	1,085	100	--	--	1,790
Japan	5	--	--	--	--	10	--	--	--	--	15
Australasia	10	--	--	--	--	10	35	--	--	--	55
USSR, E. Europe & China	10	--	200	1,395	25	200	150	--	30	--	2,010
TOTAL IMPORTS	8,225	655	2,675	13,099	710	1,840	5,335	355	740	235	33,860

1979

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	100	225	105	--	15	35	5	--	--	485
Canada	455	--	--	--	--	--	--	--	--	--	455
Latin America	2,410	230	210	270	25	--	10	--	135	355	3,645
Western Europe	350	--	--	--	145	--	--	--	25	--	520
Middle East	2,115	260	1,535	8,685	440	1,745	4,155	285	910	305	20,435
North Africa	1,355	20	120	1,870	20	--	15	--	25	--	3,425
West Africa	1,185	--	390	1,010	60	--	--	--	--	--	2,645
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	10	10	--	20	--	40
South East Asia	530	--	25	25	10	--	1,215	90	20	--	1,915
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	10	--	--	--	--	--	15	--	--	--	25
USSR, E. Europe & China	--	--	200	1,115	35	180	150	--	60	--	1,740
TOTAL IMPORTS	8,410	610	2,705	13,080	735	1,970	5,605	380	1,195	660	35,350

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.
SOURCE: BP Statistical Review of World Energy

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1980

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	105	290	145	5	10	--	--	--	--	555
Canada	370	--	--	30	--	10	10	--	--	25	445
Latin America	2,050	215	275	625	50	--	80	5	235	350	3,885
Western Europe	355	5	--	--	85	5	--	--	10	--	460
Middle East	1,555	300	1,615	7,275	445	1,745	3,560	220	695	100	17,510
North Africa	1,015	5	135	1,440	15	--	55	--	155	--	2,820
West Africa	985	5	420	990	60	--	15	--	--	--	2,475
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	--	5	--	35	--	40
South East Asia	405	--	--	15	25	--	1,075	140	45	--	1,705
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	--	--	--	5	--	10	5	--	--	--	20
USSR, E. Europe & China	--	--	205	1,300	--	225	180	--	95	--	2,005
TOTAL IMPORTS	6,735	635	2,940	11,825	685	2,020	4,985	365	1,270	475	31,935

1981

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	95	260	135	5	40	40	10	10	10	605
Canada	425	--	5	15	5	--	--	--	--	5	455
Latin America	1,950	295	220	880	105	--	155	25	380	370	4,380
Western Europe	525	5	--	--	105	10	5	--	110	--	760
Middle East	1,255	195	1,395	5,750	385	1,755	3,020	180	555	115	14,605
North Africa	655	30	70	1,350	--	--	70	--	--	--	2,175
West Africa	720	5	285	660	40	--	20	--	--	--	1,730
East and South Africa	--	--	--	--	10	5	5	--	--	--	20
South Asia	--	--	--	--	--	5	5	5	30	--	45
South East Asia	395	--	--	50	20	--	950	95	150	--	1,660
Japan	--	--	--	--	--	5	--	5	--	--	10
Australasia	5	--	--	--	--	10	--	--	--	--	15
USSR, E. Europe & China	20	--	185	1,405	--	240	190	--	155	--	2,195
TOTAL IMPORTS	5,950	625	2,420	10,245	675	2,070	4,460	320	1,390	500	28,655

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10e

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1982

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	90	315	225	10	65	75	10	10	15	815
Canada	470	--	--	10	--	--	5	--	--	--	485
Latin America	2,050	180	415	750	100	10	150	--	150	330	4,135
Western Europe	580	25	30	--	155	10	--	5	160	--	965
Middle East	770	95	920	4,625	275	1,640	2,755	155	425	--	11,660
North Africa	245	15	125	1,500	20	--	45	--	190	5	2,145
West Africa	605	5	105	700	45	--	--	--	40	--	1,500
East and South Africa	--	--	--	--	20	5	--	--	--	--	25
South Asia	--	--	--	45	—	5	5	5	10	--	70
South East Asia	275	--	--	25	20	--	890	135	135	--	1,480
Japan	--	--	--	5	--	5	--	5	--	--	15
Australasia	5	--	--	--	--	--	20	--	--	--	25
USSR, E. Europe & China	40	--	200	1,465	--	240	210	5	85	--	2,245
TOTAL IMPORTS	5,040	410	2,110	9,350	645	1,980	4,155	320	1,205	350	25,565

1983

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	80	255	185	15	80	105	15	5	--	740
Canada	540	--	--	--	--	--	5	--	--	--	545
Latin America	2,160	125	425	820	65	5	180	5	160	120	4,065
Western Europe	550	15	25	--	145	5	--	5	105	10	860
Middle East	575	60	855	3,415	405	1,615	2,750	120	545	15	10,355
North Africa	280	25	60	1,675	5	--	40	--	95	--	2,180
West Africa	475	15	115	755	25	--	5	--	35	--	1,425
East and South Africa	--	--	--	--	--	5	--	--	--	--	5
South Asia	--	--	--	5	10	25	15	10	--	--	65
South East Asia	345	--	--	25	20	--	780	85	55	90	1,400
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	5	--	--	--	--	10	30	--	5	--	50
USSR, E. Europe & China	60	--	220	1,785	--	240	235	5	110	--	2,655
TOTAL IMPORTS	4,990	320	1,955	8,665	690	1,995	4,145	245	1,115	235	24,355

*Includes changes in the quantity of oil in transit, transit losses, minor movements not otherwise shown, unidentified military use, etc.

SOURCE: BP Statistical Review of World Energy

BASIC PETROLEUM DATA BOOK

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Petroleum

Table 2. U.S. Exports of Petroleum to Selected Areas

Table 3. African Oil Exports to Selected Areas

Table 4. Middle East Oil Exports to Selected Areas

Table 5. The Role of Middle East and African Oil in Western European and Japanese Consumption

Table 6. The Role of Middle East and African Oil in World Exports

TOTAL U.S. DOMESTIC PRODUCTION AND EXPORTS OF CRUDE OIL AND ITS PRODUCTS
(Thousands of barrels)

Year	Production(1)	Exports	Exports As a % of U.S. Production
1947	1,989,850	164,477	8.3
1948	2,167,264	134,674	6.2
1949	1,999,215	119,376	6.0
1950	2,155,693	111,306	5.2
1951	2,452,465	154,052	6.3
1952	2,513,351	158,188	6.3
1953	2,596,661	146,591	5.6
1954	2,567,121	129,733	5.1
1955	2,765,799	134,188	4.9
1956	2,910,010	157,386	5.4
1957	2,911,891	207,187	7.1
1958	2,743,736	100,638	3.7
1959	2,895,347	77,067	2.7
1960	2,915,090	73,906	2.5
1961	2,983,447	63,563	2.1
1962	3,048,894	61,390	2.0
1963	3,153,609	75,914	2.4
1964	3,209,293	73,879	2.3
1965	3,290,070	68,288	2.1
1966	3,496,398	72,400	2.1
1967	3,730,198	112,060	3.0
1968	3,879,353	84,544	2.2
1969	3,951,992	84,885	2.1
1970	4,123,366	94,458	2.3
1971	4,071,729	81,685	2.0
1972	4,093,584	81,389	2.0
1973	3,995,326	84,413	2.1
1974	3,818,683	80,491	2.1
1975	3,652,737	76,428	2.1
1976	3,563,225	81,599	2.3
1977	3,599,720	88,588	2.5
1978	3,750,302	132,057	3.5
1979	3,699,333	171,856	4.6
1980	3,722,152	199,256	5.4
1981	3,715,743	217,024	5.8
1982	3,722,591	297,514	8.0
1983	3,730,085	269,890	7.2

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(1) Figures include crude oil, lease condensate and natural gas liquids.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of Barrels)

	CANADA		MEXICO		CARIBBEAN(1)		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	TOTAL U.S. EXPORTS
1947	39,058	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565	4,424	20,674	N.A.		--	--	--	14,565	--	2,786	164,477
1948	33,298	20,629	62	4,157	1,498	8,788	1,417	3,439	471	16,223	2,991	13,150	N.A.		--	--	--	8,570	--	2,400	134,674
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410	547	12,423	N.A.		--	364	--	7,176	--	2,922	119,376
1950	30,708	15,953	--	6,229	1,829	7,278	661	4,141	441	5,868	851	8,227	N.A.		334	92	--	2,953	--	1,916	111,306
1951	21,172	17,867	--	7,034	2,167	9,729	1,356	3,932	457	13,914	1,048	12,284	N.A.		2,403	4,878	--	11,406	--	4,783	154,052
1952	20,172	25,211	--	7,130	2,513	13,703	1,789	4,295	499	9,889	976	9,466	N.A.		748	7,286	--	13,126	--	5,896	158,188
1953	14,025	26,939	--	8,281	2,620	10,399	1,081	3,515	418	9,201	926	7,809	N.A.		862	10,508	--	8,740	--	5,043	146,591
1954	8,130	22,635	--	12,003	2,928	7,185	608	5,003	462	7,687	745	5,424	N.A.		726	8,166	--	5,996	--	2,734	129,733
1955	6,501	20,329	--	16,062	3,136	7,713	236	6,426	532	8,875	650	7,385	N.A.		515	11,282	--	4,363	--	1,636	134,188
1956	5,570	20,560	--	16,485	3,262	9,979	--	5,007	5,238	10,831	13,377	14,560	N.A.		1,055	9,790	--	4,309	122	2,154	157,386
1957	8,240	18,307	902	15,950	3,283	11,120	--	7,110	14,880	19,660	21,003	29,660	N.A.		1,057	13,642	339	6,431	539	3,328	207,187
1958	1,153	13,497	696	11,568	592	7,977	--	3,661	378	6,010	450	9,420	N.A.		1,076	12,486	--	4,491	--	2,368	100,638
1959	--	16,061	21	8,297	--	3,978	--	4,753	405	6,592	550	9,515	N.A.		1,548	16,153	--	5,819	--	2,383	77,067
1960	--	12,622	--	6,428	--	3,315	--	4,131	433	3,840	568	10,395	N.A.		2,086	20,595	-	5,891	--	2,332	73,906
1961	20	8,381	133	4,415	--	3,721	1	3,143	437	3,268	355	9,401	N.A.		2,218	19,255	55	5,930	--	1,686	63,563
1962	8	7,706	--	4,981	--	2,888	--	3,417	428	2,616	--	10,290	N.A.		1,354	18,333	--	6,544	--	2,655	61,390
1963	2	7,985	3	6,889	--	3,481	--	3,036	424	3,443	1	19,933	N.A.		1,266	20,080	1	7,316	--	3,066	75,914
1964	7	9,791	3	8,920	--	4,503	--	3,656	326	3,191	--	14,387	N.A.		952	19,429	63	6,602	--	2,206	73,879
1965	12	9,619	333	9,452	--	3,322	1	2,635	352	3,924	--	13,365	N.A.		306	14,466	--	7,648	--	1,596	68,288
1966	2	11,715	203	13,955	--	2,179	--	3,240	431	3,784	1	13,522	N.A.		808	12,283	31	7,077	1	2,019	72,400
1967	3,688	14,521	18	12,999	645	3,479	--	4,444	16,959	5,562	4,604	15,318	N.A.		626	17,938	--	7,299	1	2,179	112,060
1968	5	14,126	114	11,140	283	1,603	--	5,138	352	4,838	--	14,912	N.A.		1,048	19,566	--	7,779	--	2,026	84,545
1969	30	16,017	1	12,098	220	2,511	--	5,829	430	4,421	--	17,005	N.A.		755	16,314	--	7,364	--	1,849	84,885
1970	328	10,855	--	12,142	4,264	3,272	--	4,565	176	4,185	--	20,250	N.A.		223	24,868	--	6,433	--	1,475	94,458
1971	60	9,384	--	15,180	181	4,474	--	5,484	120	3,053	--	19,406	--	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	--	9,599	--	15,061	--	3,888	--	4,374	--	3,705	--	24,033	--	1,158	187	11,475	--	6,165	--	1,744	81,389
1973	--	11,427	--	15,984	--	3,614	--	4,294	--	3,249	177	24,863	--	957	520	11,782	--	5,888	--	1,658	84,413
1974	108	11,504	--	12,885	966	3,023	--	4,005	--	2,317	--	24,238	--	1,146	--	13,809	--	4,728	--	1,762	80,491

N.A. Not Available

(1) As of 1971, includes exports to Puerto Rico and Virgin Islands.

(2) Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419.

Source: U.S. Bureau of Mines: 1947-1974, Minerals Yearbook.

Section X
Table 2a

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of Barrels)

	CANADA		MEXICO		CARIBBEAN(1)		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		TOTAL
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	U.S. EXPORTS
1975	19	8,139	--	15,425	2,127	3,114	--	3,386	--	2,636	--	24,846	--	995	--	10,012	--	3,550	--	2,179	76,428
1976	2,241	8,096	--	12,677	700	8,772	--	3,474	--	2,732	--	27,220	--	1,280	--	9,326	--	3,725	--	2,356	81,599
1977	16,460	9,548	--	8,893	1,795	3,566	--	3,338	--	3,136	--	25,933	--	1,034	--	8,951	--	4,213	--	1,721	88,588
1978	28,761	10,640	--	9,877	28,967	3,373	--	4,459	--	2,447	--	26,457	--	1,380	--	9,642	--	4,802	--	1,252	132,057
1979	26,079	10,299	--	7,835	59,628	3,538	--	4,718	--	2,493	--	37,497	--	1,085	--	12,543	--	4,416	--	1,725	171,856
1980	30,567	8,822	--	10,085	74,367	9,942	--	4,006	--	2,386	--	34,885	--	1,291	--	11,596	--	9,028	--	2,280	199,256(2)
1981	16,440	16,102	--	9,416	65,104	18,692	--	2,781	--	1,971	--	47,710	--	1,912	--	14,014	7	16,715	--	2,595	217,024(2)
1982	13,083	18,019	--	19,464	67,633	23,531	--	6,714	--	5,167	--	77,969	--	2,182	--	24,836	--	28,077	--	2,791	297,514(2)
1983	6,781	21,047	--	8,812	46,431	21,026	--	6,966	--	3,047	--	66,025	--	1,808	--	38,132	--	35,904	--	3,097	269,854(2)

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(1) Includes exports to Puerto Rico and Virgin Islands
(2) Includes exports to Greenland, and other.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual.

Section X
Table 3

AFRICA OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year$^{(1)}$	United States	Western Europe	Japan	All Others	Total Middle East Exports
1960	--	237	--	--	237
1961	5	430	--	--	435
1962	25	740	--	--	765
1963	25	1,125	--	30	1,180
1964	55	1,565	--	30	1,650
1965	70	2,040	--	30	2,140
1966	90	2,540	5	130	2,765
1967	55	2,700	—	155	2,910
1968	170	3,535	5	165	3,875
1969	330	4,370	15	230	4,945
1970	125	5,330	50	300	5,805
1971	195	4,430	60	805	5,490
1972	495	3,900	75	920	5,390
1973	875	3,575	130	1,005	5,585
1974	1,025	3,215	170	760	5,170
1975	1,350	2,365	140	560	4,415
1976	2,000	2,540	70	720	5,330
1977	2,540	2,580	25	540	5,685
1978	2,285	2,555	--	655	5,495
1979	2,540	2,880	15	645	6,080
1980	2,000	2,430	70	805	5,305
1981	1,375	2,010	95	445	3,925
1982	850	2,200	45	575	3,670
1983	755	2,430	45	380	3,610

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(1) Not available prior to 1960

Source: "BP Statistical Review of the World Oil Industry," Annual

MIDDLE EAST OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year[(1)]	United States	Western Europe	Japan	All Others	Total Middle East Exports
1959	355	2,528	--	1,060	4,120
1960	347	2,724	--	1,619	4,690
1961	345	2,855	610	1,280	5,090
1962	315	3,060	720	1,490	5,585
1963	295	3,400	920	1,540	6,155
1964	310	3,740	1,115	1,760	6,925
1965	350	4,195	1,435	1,630	7,610
1966	320	4,375	1,650	2,280	8,625
1967	200	4,605	2,035	2,305	9,145
1968	270	5,065	2,650	2,460	10,445
1969	265	5,780	3,055	2,425	11,525
1970	175	6,220	3,485	2,835	12,715
1971	390	7,685	3,810	3,365	15,250
1972	475	8,570	3,770	4,135	16,950
1973	820	10,350	4,385	4,415	19,970
1974	1,025	10,195	4,050	4,780	20,050
1975	1,140	8,815	3,675	4,875	18,505
1976	1,910	9,405	3,955	5,585	20,855
1977	2,560	8,855	4,095	5,220	20,730
1978	2,300	8,685	4,010	4,735	19,730
1979	2,115	8,685	4,155	5,480	20,435
1980	1,555	7,275	3,560	5,120	17,510
1981	1,255	5,750	3,020	4,580	14,605
1982	770	4,625	2,755	3,510	11,660
1983	575	3,415	2,750	3,615	10,355

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(1) Not available prior to 1959

Source: "BP Statistical Review of the World Oil Industry," Annual

Section X
Table 5

THE ROLE OF MIDDLE EAST AND AFRICAN OIL ON WESTERN EUROPEAN AND JAPANESE CONSUMPTION

(Thousands of Barrels Per Day)

	WESTERN EUROPE			JAPAN		
Year	Consumption	From the Middle East	From Africa	Consumption	From the Middle East	From Africa
1961	4,453	2,855	430	821	610	--
1962	5,128	3,060	740	934	720	--
1963	5,893	3,400	1,125	1,212	920	--
1964	6,692	3,740	1,565	1,484	1,115	--
1965	7,525	4,195	2,040	1,743	1,435	--
1966	8,360	4,375	2,540	1,979	1,650	5
1967	8,937	4,605	2,700	2,144	2,035	--
1968	9,958	5,065	3,535	2,660	2,650	5
1969	11,378	5,780	4,370	3,250	3,055	15
1970	12,364	6,220	5,330	3,847	3,485	50
1971	12,912	7,685	4,430	4,179	3,810	60
1972	13,847	8,570	3,900	4,364	3,770	75
1973	14,492	10,350	3,575	5,071	4,385	130
1974	13,681	10,195	3,215	4,960	4,050	170
1975	12,603	8,815	2,365	4,502	3,675	140
1976	13,448	9,405	2,540	4,771	3,955	70
1977	14,235	8,855	2,580	5,345	4,095	25
1978	14,630	8,685	2,555	5,420	4,012	10
1979	15,037	8,685	2,880	5,480	4,155	15
1980	13,826	7,275	2,430	4,960	3,560	70
1981	13,045	5,750	2,010	4,690	3,020	95
1982	12,500	4,625	2,200	4,395	2,755	45
1983	12,190	3,415	2,430	4,360	2,750	45

Source: 1961-1980: Western Europe and Japanese Consumption: U.S. Department of Energy, International Petroleum Annual
1981-1983: Western Europe and Japanese Consumption: BP Statistical Review of the World Oil Industry
1961-1983: Middle East and African Exports: BP Statistical Review of the World Oil Industry

Section X
Table 6

THE ROLE OF MIDDLE EAST AND AFRICAN OIL IN WORLD EXPORTS
(Thousands of Barrels/Day)

Year	MIDDLE EAST		AFRICA		TOTAL WORLD	
	Production	Exports	Production	Exports	Production	Exports
1961	5,633	5,090	489	435	22,428	9,870
1962	6,186	5,585	804	765	24,334	11,285
1963	6,812	6,155	1,190	1,180	26,132	12,205
1964	7,613	6,925	1,704	1,650	28,168	13,625
1965	8,367	7,610	2,224	2,140	30,308	15,110
1966	9,338	8,625	2,821	2,765	32,936	16,890
1967	10,048	9,145	3,117	2,910	35,382	17,905
1968	11,298	10,445	3,992	3,875	38,651	20,400
1969	12,447	11,525	5,069	4,945	41,706	22,640
1970	13,957	12,715	6,069	5,805	45,805	25,420
1971	16,381	15,250	5,645	5,490	48,391	27,285
1972	18,116	16,950	5,699	5,390	50,822	30,095
1973	21,219	19,970	5,922	5,585	55,803	34,130
1974	21,882	20,050	5,452	5,170	56,268	33,330
1975	19,619	18,505	5,003	4,415	53,418	30,335
1976	22,174	20,855	5,832	5,330	58,059	34,300
1977	22,600	20,730	6,236	5,685	62,620	34,755
1978	21,415	19,730	6,115	5,495	63,085	33,860
1979	21,558	20,435	6,640	6,080	62,658	35,350
1980	18,407	17,510	6,031	5,305	59,454	31,935
1981	15,752	14,605	4,581	3,925	55,818	28,655
1982	12,664	11,660	4,465	3,670	53,053	25,565
1983	11,550	10,335	4,410	3,610	52,702	24,355

Source: 1961-1978: Total World, Middle East and African Production, U.S. Department of Energy, International Petroleum Annual
1979-1983: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1983: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry

BASIC PETROLEUM DATA BOOK

SECTION XI. OFFSHORE

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Section XI
Table 1

ESTIMATED WORLDWIDE PRODUCTION OF CRUDE OIL
ONSHORE vs OFFSHORE
(Thousands of Barrels)

Year(1)	Onshore Production	Offshore Production	Total World Production
1969	12,961,336	2,261,175	15,222,511
1970	13,969,418	2,749,290	16,718,708
1971	14,660,828	3,001,965	17,662,793
1972	15,360,100	3,240,645	18,600,745
1973	16,733,997	3,633,984	20,367,981
1974	17,132,097	3,405,630	20,537,727
1975	16,315,469	3,186,866	19,502,335
1976	17,666,395	3,525,145	21,191,540
1977	17,748,290	4,152,405	21,900,695
1978	17,963,201	4,195,050	22,158,251
1979	18,205,470	4,559,580	22,765,050
1980	16,750,722	5,009,442	21,764,164
1981	15,396,795	4,976,775	20,373,570
1982	14,452,690	4,942,465	19,395,155
1983	14,263,470	5,011,085	19,274,555
	(Thousands of barrels per day)		
1969	35,511	6,195	41,706
1970	38,273	7,532	54,805
1971	40,166	8,225	48,381
1972	41,968	8,854	50,822
1973	45,847	9,956	55,803
1974	46,937	9,330	56,267
1975	44,687	8,731	53,418
1976	48,269	9,632	57,900
1977	48,626	11,376	60,002
1978	49,215	11,493	60,708
1979	49,878	12,492	62,370
1980	45,767	13,687	59,454
1981	42,183	13,635	55,818
1982	39,596	13,541	53,137
1983	39,078	13,729	52,807

Source: Total World Production, U.S. Energy Information Administration:
1980-1983 production, CIA.
United States Offshore Production, U.S. Geological Survey and U.S. Energy Information Administration
Rest of World Offshore Production, Offshore Magazine

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF CRUDE OIL BY AREA
(Thousands of Barrels)

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations(2)	Total World
1970	575,715	897,900	43,435	1,517,050	760,660	239,805	133,225	4,380	2,655,120	94,170	2,749,290
1971	614,754	908,850	69,423	1,593,027	913,413	233,856	158,410	12,009	2,910,715	91,250	3,001,965
1972	607,572	915,000	82,350	1,604,922	1,040,538	276,293	216,705	15,811	3,154,269	86,376	3,240,645
1973	578,998	985,500	65,822	1,630,320	1,282,161	323,178	287,467	24,718	3,547,844	86,140	3,633,984
1974	543,636	755,999	73,653	1,373,288	1,262,732	380,341	275,082	29,872	3,321,315	84,315	3,405,630
1975	497,266	634,042	97,400	1,228,708	1,070,348	364,876	323,221	116,493	3,103,646	83,220	3,186,866
1976	462,470	613,863	107,103	1,183,436	1,198,203	384,553	407,578	270,855	3,444,625	80,520	3,525,145
1977	429,075	456,250	107,675	993,595	1,647,975	490,195	549,690	396,025	4,077,580	74,825	4,152,405
1978	414,745	395,660	103,660	914,065	1,734,845	414,275	525,600	532,535	4,121,320	73,730	4,195,050
1979	389,077	383,250	255,135	1,027,462	1,934,135	355,510	490,560	736,570	4,544,237	71,905	4,616,142
1980	378,444	401,136	281,820	1,061,400	2,132,316	349,164	541,680	850,218	4,934,778	73,932	5,008,710
1981	377,410	381,060	502,970	1,261,440	1,936,325	308,790	539,470	858,480	4,904,505	72,270	4,976,775
1982	405,150	374,490	733,285	1,512,925	1,496,865	286,160	589,840	992,070	4,877,860	64,605	4,942,465
1983	436,487	411,720	747,885	1,596,145	1,322,030	296,015	604,440	1,128,700	4,947,210	63,875	5,011,085
					(Thousands of barrels per day)						
1970	1,577	2,460	119	4,156	2,084	657	365	12	7,274	258	7,532
1971	1,684	2,490	190	4,364	2,503	641	434	33	7,975	250	8,225
1972	1,660	2,500	225	4,385	2,843	755	592	43	8,618	236	8,854
1973	1,586	2,700	180	4,466	3,513	885	788	68	9,720	236	9,956
1974	1,489	2,071	202	3,762	3,460	1,042	754	82	9,100	231	9,331
1975	1,362	1,737	267	3,366	2,932	1,000	886	319	8,503	228	8,731
1976	1,263	1,677	293	3,233	3,542	[illegible]	1,114	740	9,412	220	9,632
1977	1,176	1,250	295	2,721	4,960	898	1,506	1,085	11,170	205	11,375
1978	1,136	1,084	284	2,504	5,195	693	1,440	1,459	11,291	202	11,493
1979	1,066	1,050	699	2,815	5,149	974	1,344	2,018	12,300	192	12,492
1980	1,034	1,096	770	2,900	5,826	954	1,480	2,323	13,483	202	13,685
1981	1,034	1,044	1,378	3,456	5,305	846	1,478	2,352	13,437	198	13,635
1982	1,110	1,026	2,009	4,145	4,101	784	1,616	2,718	13,364	177	13,541
1983	1,196	1,128	2,049	4,373	3,622	811	1,656	3,092	13,554	175	13,729

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(1) Data not available for prior years.
(2) Only the U.S.S.R. is reported having offshore production until 1978, when China began reporting.

Source: United States Production: 1970-1971, U.S. Geological Survey: 1972-1983, U.S. Energy Information Administration
Rest of World--Offshore Magazine.

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE - OFFSHORE

Year	PRODUCTION (Thousands of Barrels)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore[1]	Offshore[1]	Total
Cumulative to 1953	47,336,529	477,188	47,813,717	$81,065,039	$ 818,839	$81,883,878
1954	2,266,387	48,601	2,314,988	6,290,006	134,924	6,424,930
1955	2,425,289	59,139	2,484,428	6,705,491	164,889	6,870,380
1956	2,543,889	73,394	2,617,283	7,059,563	203,362	7,262,925
1957	2,533,249	83,652	2,616,901	7,820,723	258,536	8,079,259
1958	2,362,773	86,214	2,448,987	7,121,674	258,299	7,379,973
1959	2,474,511	100,079	2,574,590	7,181,876	291,460	7,473,336
1960	2,458,170	116,763	2,574,933	7,086,273	333,908	7,420,181
1961	2,488,382	133,376	2,621,758	7,179,732	385,850	7,565,582
1962	2,513,972	162,217	2,676,189	7,299,834	474,217	7,774,051
1963	2,564,621	188,102	2,752,723	7,424,072	541,671	7,965,743
1964	2,572,003	214,819	2,786,822	7,399,763	617,315	8,017,078
1965	2,605,862	242,652	2,848,514	7,464,843	693,455	8,158,298
1966	2,727,493	300,270	3,027,763	7,862,507	863,916	8,726,423
1967	2,847,565	368,177	3,215,742	8,306,894	1,068,833	9,375,727
1968	2,857,851	471,191	3,329,042	8,403,961	1,390,865	9,794,826
1969	2,845,919	525,832	3,371,751	8,800,118	1,626,562	10,426,680
1970	2,941,736	575,714	3,517,450	9,341,235	1,832,491	11,173,726
1971	2,839,160	614,754	3,453,914	9,611,644	2,081,354	11,692,998
1972	2,847,796	607,572	3,455,368	9,646,164	2,060,346	11,706,510
1973	2,781,905	578,998	3,360,903	10,808,354	2,249,551	13,057,905
1974	2,658,949	543,636	3,202,585	17,911,856	3,668,693	21,580,549

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(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: Total U.S. Production and Total Dollar Value at Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, 1973-1974, U.S. Bureau of Mines: All other years, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE - OFFSHORE

Year	PRODUCTION (Thousands of Barrels)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore (1)	Offshore (1)	Total
1975	2,559,513	497,266	3,056,779	$19,325,025	$ 3,791,034	$23,116,059
1976	2,513,710	462,470	2,976,180	20,464,500	3,765,040	24,229,540
1977	2,555,589	429,771	2,985,360	22,076,858	3,713,864	25,790,722
1978	2,763,471	414,745	3,178,216	24,775,707	3,702,117	28,477,824
1979	2,731,902	389,408	3,121,310	34,169,915	4,881,417	39,051,332
1980	2,767,840	378,525	3,146,365	57,835,374	7,886,642	65,722,016
1981	2,751,214	377,410	3,128,624	87,406,069	11,990,316	99,396,384
1982	2,751,565	405,150	3,156,715	78,474,634	11,554,878	90,029,512
1983	2,734,512	436,487	3,170,999	71,616,869	11,431,595	83,048,491

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(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 4

ESTIMATED WORLDWIDE PRODUCTION OF NATURAL GAS
ONSHORE vs OFFSHORE
(Millions of cubic feet)

Year	Onshore Production	Offshore Production	Total World Production
1970	32,832,942	5,261,019(1)	38,093,961
1971	36,505,911	4,682,485(1)	41,188,396
1972	39,506,581	4,107,978(1)	43,524,559
1973	40,434,180	5,709,421	46,143,601
1974	40,934,670	6,243,850	47,178,520
1975	39,864,833	7,652,941	47,517,774
1976	37,475,038	10,830,646	48,305,684
1977	42,475,464	7,624,626	50,100,090
1978	42,240,355	9,508,980	51,749,302
1979	42,773,255	10,067,795	52,841,050
1980	44,413,368	9,725,718	54,139,086
1981	44,029,685	10,085,315	54,115,000
1982	43,368,420	10,326,580	53,695,000
	(Millions of cubic feet per day)		
1970	89,953	14,414	104,367
1971	100,016	12,829	112,845
1972	105,210	13,710	118,920
1973	110,779	15,642	126,421
1974	112,150	17,106	129,256
1975	109,219	20,967	130,186
1976	102,391	29,592	131,983
1977	116,371	20,889	137,261
1978	115,727	26,052	141,779
1979	117,187	27,583	144,770
1980	121,348	26,573	147,921
1981	120,629	27,631	148,260
1982	118,818	28,292	147,110

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(1) Reflects Free World offshore production since Communist Nation production figures are not available prior to 1973.

Source: Offshore Production, Offshore Magazine and U.S. Geological Survey
Total World Production, 1970-78, U.S. Energy Information Administration, World Natural Gas
1979-80, Central Intelligence Agency, International Energy Statistical Review
1981-82, British Petroleum, BP Statistical Reveiw of World Energy

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	WESTERN HEMISPHERE United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World
1970	3,218,117	27,601	3,245,718	1,568,000	28,700	22,101	396,500	5,261,019	N.A.	N.A.
1971	3,750,678	26,806	3,777,484	214,299	N.A.	35,801	654,901	4,682,485	N.A.	N.A.
1972	3,757,415	26,301	3,783,716	252,602	N.A.	44,568	937,092	5,017,978	N.A.	N.A.
1973	3,975,335	28,317	4,003,652	263,435	N.A.	102,784	1,095,000	5,464,871	244,550	5,709,421
1974	4,229,751	39,913	4,269,664	259,661	N.A.	135,900	1,314,000	5,979,225	264,625	6,243,850
1975	4,257,360	54,020	4,311,380	1,396,125	114,610	132,130	1,388,095	7,342,340	282,510	7,624,850
1976	4,296,474	123,342	4,419,816	259,860	183,000	233,874	5,406,186	10,502,736	328,302	10,831,038
1977	4,539,870	134,685	4,674,555	333,975	79,935	464,645	1,707,835	7,260,945	363,540	7,624,485
1978	5,104,160	219,730	5,323,890	365,365	80,665	897,535	2,453,165	9,120,620	388,360	9,508,980
1970	5,420,615	201,480	5,622,095	362,080	182,500	759,930	2,717,425	9,644,030	423,765	10,067,795
1980	5,366,658	223,260	5,589,918	546,072	185,928	712,602	2,691,198	9,725,718	448,350	10,174,068
1981	5,517,789	495,305	6,013,094	281,050	101,835	793,510	3,082,790	10,272,279	486,180	10,758,459
1982	4,679,300	543,120	5,722,420	142,350	185,055	832,930	3,081,330	9,464,085	518,300	9,982,385

(Millions of cubic feet per day)

Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World
1970	8,817	75	8,892	4,296	79	61	1,086	14,414	N.A.	N.A.
1971	10,276	73	10,349	587	N.A.	98	1,794	12,829	N.A.	N.A.
1972	10,266	72	10,388	690	N.A.	122	2,560	13,710	N.A.	N.A.
1973	10,891	78	10,969	722	N.A.	282	3,000	14,972	670	15,642
1974	11,588	109	11,697	711	N.A.	372	3,600	16,380	725	17,106
1975	11,664	148	11,812	3,825	314	362	3,803	20,116	774	20,890
1976	11,739	337	12,076	710	500	639	14,771	28,696	897	29,593
1977	12,438	369	12,807	915	219	1,273	4,679	19,893	996	20,889
1978	13,984	602	14,586	1,001	221	2,459	6,721	24,988	1,064	26,052
1979	14,851	552	15,403	992	500	2,082	7,445	26,422	1,161	27,583
1980	14,663	610	15,273	1,492	508	1,947	7,353	26,573	1,225	27,798
1981	15,117	1,357	16,474	770	279	2,174	8,446	28,143	1,332	29,475
1982	12,820	1,488	14,308	390	507	2,282	8,442	25,929	1,420	27,349

N.A. Not Available

Source: U.S. Production--U.S. Geological Survey
Rest of World--Offshore Magazine
1981--Offshore Magazine

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet) Onshore	Offshore	Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars) Onshore[1]	Offshore[1]	Total
Cumulative to 1953	142,838,325	91,675	142,930,000	$ --	$ --	$ --
1954	8,657,781	84,765	8,742,546	873,676	8,825	882,501
1955	9,277,192	128,159	9,405,351	964,660	13,697	978,357
1956	9,938,516	143,407	10,081,923	1,068,639	15,173	1,083,812
1957	10,506,021	174,237	10,680,258	1,182,531	19,228	1,201,759
1958	10,772,251	258,047	11,030,298	1,287,190	30,302	1,317,492
1959	11,692,755	353,360	12,046,115	1,511,653	45,147	1,556,800
1960	12,330,577	440,461	12,771,038	1,729,111	60,859	1,789,970
1961	12,775,881	478,144	13,254,025	1,924,376	71,865	1,996,241
1962	13,236,310	640,312	13,876,622	2,046,617	98,684	2,145,301
1963	13,903,285	763,274	14,666,559	2,206,972	121,058	2,328,030
1964	14,612,386	849,757	15,462,143	2,256,366	131,323	2,387,689
1965	15,100,329	939,424	16,039,753	2,347,364	147,178	2,494,542
1966	15,833,431	1,373,197	17,206,628	2,486,538	216,221	2,702,759
1967	16,333,573	1,837,752	18,171,325	2,605,968	292,773	2,989,741
1968	17,001,069	2,321,331	19,322,400	2,788,445	380,243	3,168,688
1969	17,853,564	2,844,676	20,698,240	2,982,196	473,419	3,455,615
1970	18,702,524	3,218,118	21,920,642	3,195,065	550,615	3,745,680
1971	18,742,333	3,750,679	22,943,012	3,403,207	682,275	4,085,482
1972	18,774,283	3,757,415	22,531,698	3,483,161	697,301	4,180,462
1973	18,672,212	3,975,337	22,647,549	4,032,715	861,357	4,894,072
1974	17,370,769	4,229,753	21,600,522	5,285,015	1,288,387	6,573,402

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(1) Total dollar value distributed in proportion to percentage of production onshore and offshore.

Sources: U.S. Total Production and Total Dollar Value at the Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

Table 6a

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore[(1)]	Offshore[(1)]	Total
1975	15,851,200	4,257,461	20,108,661	$ 7,048,709	$ 1,896,353	$ 8,945,062
1976	15,656,118	4,296,320	19,952,438	9,080,048	2,491,728	11,571,776
1977	15,485,463	4,540,000	20,025,463	12,232,462	3,592,492	15,825,954
1978	14,870,033	5,104,000	19,974,033	13,457,380	4,619,120	18,076,500
1979	15,050,302	5,420,958	20,471,260	17,723,521	6,390,113	24,113,634
1980	15,012,092	5,366,695	20,378,787	23,622,458	8,429,724	32,052,182
1981	14,659,912	5,517,789	20,177,701	29,026,626	10,925,222	39,951,848
1982	13,840,375	4,679,300	18,519,675	34,126,066	11,370,699	45,496,765

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(1) Total dollar value distributed in proportion to percentage of production onshore and offshore

Source: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

TOTAL OFFSHORE WELLS DRILLED IN THE UNITED STATES(1)
FEDERAL AND STATE LEASES
Alltime to January 1, 1984

	EXPLORATORY WELLS				DEVELOPMENT WELLS				TOTAL WELLS			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
ALASKA												
State	19	7	54	80	256	12	31	299	275	19	85	379
Federal	--	--	19	19	--	--	--	--	--	--	19	19
Total	19	7	73	99	256	12	31	299	275	19	104	398
CALIFORNIA												
State	20	10	138	168	3065	22	307	3394	3085	32	445	3562
Federal	19	0	147	166	350	3	16	369	369	3	163	535
Total	39	10	285	334	3415	25	323	3763	3454	35	608	4097
OREGON												
Federal	--	--	8	8	--	--	--	--	--	--	8	8
WASHINGTON												
State	--	--	2	2	--	--	--	--	--	--	2	2
Federal	--	--	4	4	--	--	--	--	--	--	4	4
Total	--	--	6	6	--	--	--	--	--	--	6	6
PACIFIC OCEAN												
State	39	17	194	250	3321	34	338	3693	3360	51	532	3943
Federal	19	--	199	218	350	3	16	369	369	3	215	587
Total	58	17	393	468	3671	37	354	4062	3729	54	747	4530
FLORIDA												
State	--	--	15	15	--	--	--	--	--	--	15	15
Federal	--	--	9	9	--	--	--	--	--	--	9	9
Total	--	--	24	24	--	--	--	--	--	--	24	24
LOUISIANA												
State	61	94	882	1037	1798	518	722	3038	1859	612	1604	4075
Federal	201	246	2944	3391	6042	3495	3554	13091	6243	3741	6498	16482
Total	262	340	3826	4428	7840	4013	4276	16129	8102	4353	8102	20557
TEXAS												
State	35	173	675	883	50	138	119	307	85	311	794	1190
Federal	10	80	985	1075	53	264	564	881	63	344	1549	1956
Total	45	253	1660	1958	103	402	683	1188	148	655	2343	3146
N. GULF OF MEXICO												
Federal	--	--	184	184	63	18	41	122	63	18	225	306
GULF OF MEXICO												
State	96	267	1572	1935	1848	656	841	3345	1944	923	2413	5280
Federal	211	326	4122	4659	6158	3777	4159	14094	6369	4103	8281	18753
Total	307	593	5694	6594	8006	4433	5000	17439	8313	5026	10694	24003
ALABAMA												
State	--	1	--	1	1	1	1	3	1	2	1	4
ATLANTIC OCEAN												
Federal	--	--	33	33	--	--	--	--	--	--	33	33
GRAND TOTAL												
State	135	285	1766	2186	5170	691	1180	7041	5305	976	2946	9227
Federal	230	326	4538	5094	6571	3798	4216	14585	6801	4124	8754	19679
Total	365	611	6304	7280	11741	4489	5396	21626	12106	5100	11700	28906

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(1) Offshore wells are defined as those producing from beyond natural shore lines.

Source: American Petroleum Institute

Section XI
Table 8

ACCUMULATED PRODUCTION STATE AND FEDERAL OFFSHORE LEASES
ALLTIME TO JANUARY 1, 1982

	Oil & Lease Condensate M bbls	Percent of Total	Gas MMCF	Percent of Total
ALASKA				
State	763,091	100	882,510	100
Federal	--	--	--	--
CALIFORNIA				
State	1,797,416	89	661,770	88
Federal	211,473	11	88,015	12
Subtotal	2,008,889		749,785	
WEST COAST				
State	2,560,507	92	1,544,280	95
Federal	211,473	8	88,015	5
Subtotal	2,771,980		1,632,295	
LOUISIANA				
State	1,243,290	20	9,714,168	16
Federal	5,448,811	80	49,800,253	84
Subtotal	6,692,101		59,514,421	
TEXAS				
State	24,110	32	2,501,389	42
Federal	52,373	68	3,508,511	58
Subtotal	76,483		6,009,900	
GULF OF MEXICO				
State	1,267,400	19	12,215,557	19
Federal	5,501,184	81	53,308,764	81
Subtotal	6,768,584		65,524,321	
TOTAL				
State	3,827,907	40	13,759,837	20
Federal	5,712,657	60	53,396,779	80
GRAND TOTAL	9,540,564		67,156,616	

Source: U.S. Geological Survey.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

		OFFERED		LEASED					
Date	State	Tracts	Acres	Tracts	Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
10/13/54	La.	199	748,000	90	394,721	$116,378,476	$ 1,184,175	$ 295	$ 1,220
11/09/54	Tex.	38	111,788	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,995	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,536	12,875
11/04/71	La.	18	55,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	96	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	508,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	1,421,546	144	675,587	1,428,261,330	2,026,812	2,114	39,111
TOTAL		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

Source: U.S. Department of the Interior, U.S. Geological Survey

Section XI
Table 9a

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
Cumulative totals 1954-1974		4,451	20,150,435	2,323	10,772,003	$14,793,568,042	$34,945,372	$1,373	--
02/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	$ 3,566
05/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
05/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
07/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
07/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
02/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
02/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
02/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
04/13/76	Ak.	189	1,008,499	76	409,057	599,836,587	1,226,718	1,369	11,023
08/17/76	MAL(1)	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
06/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
06/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
03/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
04/25/78	La.	87	392,894	57	262,250	503,820,339	789,770	1,921	11,038
04/25/78	Tex.	58	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,302
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
02/28/79	MAL(1)	109	620,557	39	222,038	40,001,631	718,848	180	6,832
06/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
07/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
07/31/79	Tx.	42	215,770	28	136,685	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	962,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA(2)	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
09/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
TOTAL (1954-1980)		9,358	42,857,357	3,980	19,142,130	30,779,503,142	60,525,536	1,608	

(1) Middle Atlantic
(2) North Atlantic

Source: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics

Section XI
Table 9b

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
05/28/81	Ca.	111	603,613	60	320,583	2,049,412,639	835,142	6,393	65,014
06/30/81(5)	Ak.	175	996,307	1	5,693	170,496	18,432	30	417
07/21/81	GOM(4)	212	1,077,914	156	799,899	2,649,628,751	2,399,736	3,312	37,444
08/04/81	So. Atl.	285	1,622,557	47	267,580	342,766,174	866,304	1,281	18,228
09/29/81	Cook In.	153	858,247	13	73,157	4,405,899	236,856	60	407
10/20/81	GOM	209	1,081,364	102	508,287	1,243,468,752	1,524,903	2,446	53,313
12/08/81	MAL	253	1,440,376	50	284,659	321,981,000	921,600	1,131	7,284
02/09/82	GOM	234	1,219,847	115	590,265	1,193,654,719	1,770,795	2,022	N.A.
06/11/82	So. Ca.	140	716,866	29	147,066	117,875,281	443,913	669	N.A.
8/05/82(5)	Atl, Ca., Ak.	554	3,142,069	36	204,955	11,149,450	663,552	54	N.A.
10/13/82	Ak.	338	1,825,770	121	662,861	2,055,632,336	2,146,112	3,101	N.A.
11/17/82	GOM	144	732,570	56	281,213	609,178,223	850,107	2,166	N.A.
03/08/83	GOM	125	665,478	11	58,120	37,570,900	174,360	646	N.A.
03/15/83	Ak-NB	418	2,379,751	59	335,898	317,873,372	1,087,488	946	N.A.
04/12/83	Ak-SG	479	2,688,787	96	546,546	426,458,830	7,751,248	780	N.A.
04/26/83	MAL	4,050	22,670,685	37	210,641	68,410,240	681,984	325	N.A.
05/25/83	CGOM	7,050	37,867,762	623	3,089,872	3,367,606,134	9,269,616	1,090	N.A.
07/26/83	SAL	3,582	20,392,985	11	62,625	13,362,040	202,752	213	N.A.
08/24/83	WGOM	5,848	32,620,248	406	2,246,005	1,501,712,517	6,738,015	668	N.A.
TOTAL (1954-1983)		33,855	178,235,643	6,018	29,892,099	47,077,766,617	93,108,451	N.A.	N.A.

(1) Middle Atlantic
(2) North Atlantic
(4) Gulf of Mexico
(5) Resale

Source: U.S. Department of Interior, Minerals Management Service.

Section XI
Table 10

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year--All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
1953	$ -	$ -	$ 1,359,630	$ 30,650	$ 967,892	$ 2,358,172	$ 2,358,172	$ 5,036,861	$ 5,036,861
1954	140,969,005	-	3,855,333	86,950	2,748,977	147,660,265	150,018,437	14,370,098	19,406,959
1955	108,528,725	-	3,406,351	122,000	5,140,006	117,197,082	267,215,519	27,060,679	46,467,638
1956	-	-	4,006,193	79,950	7,629,383	11,715,526	278,931,045	39,497,871	85,965,509
1957	-	68,581	3,270,122	110,268	11,391,245	14,840,216	293,771,261	61,072,588	147,038,097
1958	-	184,396	2,420,584	121,218	17,423,878	20,150,076	313,921,337	96,471,136	243,509,233
1959	89,746,993	171,036	2,285,725	84,984	26,539,977	118,828,715	432,750,052	150,472,527	393,981,760
1960	282,717,065	316,975	3,603,140	49,350	37,095,301	323,781,831	756,531,883	200,969,615	594,951,375
1961	-	314,121	3,073,861	37,100	47,920,332	51,345,414	807,877,297	273,636,456	868,587,831
1962	489,481,111	517,722	8,412,207	62,200	66,096,334	564,569,574	1,372,446,871	376,675,900	1,245,263,731
1963	12,807,587	668,339	8,435,184	52,950	76,999,225	98,963,285	1,471,410,156	450,866,484	1,696,130,215
1964	95,874,326	820,343	9,798,573	45,800	88,400,230	194,939,272	1,666,349,428	506,783,510	2,202,913,725
1965	33,740,309	1,072,699	8,731,378	38,450	102,862,540	146,445,376	1,812,794,804	594,222,732	2,797,136,457
1966	209,199,893	1,367,250	6,869,277	41,700	136,987,537	354,465,657	2,167,260,461	801,724,611	3,598,861,068
1967	510,109,742	1,891,515	6,208,936	41,400	157,607,609	675,859,202	2,843,119,663	947,214,691	4,546,075,759
1968	1,346,487,097	2,145,178	8,230,787	52,300	201,136,931	1,558,052,293	4,401,171,956	1,179,912,209	5,725,987,968
1969	111,660,685	1,923,632	8,312,607	41,650	240,090,666	362,029,240	4,763,201,196	1,443,870,472	7,169,858,440
1970	945,064,773	1,745,864	8,607,855	47,700	283,494,568	1,238,960,760	6,002,161,956	1,707,593,450	8,877,451,890
1971	96,304,522	1,891,000	7,741,997	32,300	350,042,488	456,012,307	6,458,174,263	2,135,677,078	11,013,128,968
1972	2,251,347,556	2,019,533	7,984,897	49,550	363,556,339	2,624,957,875	9,083,132,138	2,229,179,121	13,242,308,089
1973	3,082,462,611	2,391,249	8,948,816	52,650	401,126,114	3,494,981,440	12,578,113,578	2,486,864,855	15,729,172,944
1974	5,022,860,815	2,048,439	13,532,754	32,550	560,283,889	5,598,758,447	18,176,872,025	3,570,053,959	19,299,226,903
TOTAL--All States	14,829,362,815	21,557,872	139,096,207	1,313,670	3,185,541,461	18,176,872,025	18,176,872,025	19,299,226,903	19,299,226,903

NOTE: Revenue = charges and/or collection--bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31, 1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500--leases on appeal validated.

Source: U.S. Department of Interior, U.S. Geological Survey, Outer Continental Shelf Statistics, June 1975

Section XI
Table 10a

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year--All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
Cumulative 1953-1974	$14,829,362,765	$21,557,872	$139,096,207	$1,313,670	$3,185,541,461	$18,176,872,025	$18,176,872,025	$19,299,226,903	$19,299,226,903
1975	1,088,133,152	2,085,885	17,522,037	39,500	615,544,570	1,723,325,144	19,900,197,169	3,924,914,930	23,224,141,833
1976	2,242,898,467	2,128,336	23,370,502	38,400	699,424,790	2,967,860,495	22,868,057,664	4,402,439,996	27,626,581,829
1977	1,568,564,745	1,678,957	19,830,026	21,106	919,647,466	2,509,742,300	25,377,799,964	5,774,056,434	33,400,638,263
1978	1,767,042,064	2,207,183	21,512,669	3,950	1,150,346,082	2,941,111,948	28,318,911,912	7,096,500,055	40,497,138,318
1979	5,078,861,692	2,088,478	20,287,300	6,632	1,515,347,950	6,616,592,052	34,935,503,964	9,273,278,309	49,770,416,627
1980	4,204,640,257	2,291,433	19,062,498	--	2,136,663,425	6,362,657,613	41,298,161,527	13,055,515,832	62,825,932,459
1981	6,602,665,712	2,250,000(e)	22,342,953(e)	--	3,273,602,993	9,900,861,658	51,199,023,185	20,116,372,435	82,942,304,894
1982	3,987,490,009	2,300,000	20,061,651	--	3,814,739,344	7,824,501,004	59,023,614,189	22,572,357,640	105,514,662,534
TOTAL All States	41,369,658,863	38,588,144	303,085,843	1,423,258	17,310,858,081	59,023,614,189	59,023,614,189	105,514,662,534	105,514,662,534

(e) Estimated by U.S.G.S.

Source: U.S. Department of the Interior, U.S. Geological Survey.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE	TOTAL AMOUNT OF ALL BIDS RECEIVED	TOTAL BONUS
10/13/54	LA.	$ 302,924,834	$ 116,378,476
11/9/54	TEX.	73,801,896	23,357,029
TOTAL		376,726,730	139,735,505
7/12/55	TEX.	9,027,610	8,437,462
7/12/55	LA.	314,212,441	100,091,264
TOTAL		323,240,051	108,528,726
5/26/59	FLA.	1,711,872	1,711,872
8/11/59	LA.	174,411,628	88,035,120
TOTAL		176,123,500	89,746,992
2/24/60	TEX.	56,400,897	35,732,031
2/24/60	LA.	518,774,752	246,909,784
TOTAL		575,175,649	282,641,815
3/13/62	LA.	314,218,540	177,260,305
3/16/62	TEX.	557,720	557,720
3/16/62	LA.	604,799,998	267,775,677
10/9/62	LA.	66,265,290	43,887,359
TOTAL		985,841,548	489,481,061
5/14/63	CAL.	13,989,953	12,807,587
4/28/64	LA.	93,850,051	60,340,626
10/1/64	ORE.	43,049,543	27,768,772
10/1/64	WASH.	10,530,210	7,764,928
TOTAL		147,429,804	95,874,326
3/29/66	LA.	275,384,739	88,845,963
10/18/66	LA.	185,214,816	99,164,930
12/15/66	CAL.	89,937,020	21,189,000
TOTAL		550,536,575	209,199,893
6/13/67	LA.	1,627,749,269	510,079,178
2/6/68	CAL.	1,293,601,113	602,719,262
5/21/68	TEX.	1,620,393,212	593,899,046
11/19/68	LA.	398,430,736	149,868,789
TOTAL		3,312,425,061	1,346,487,097
1/14/69	LA.	71,036,938	44,037,339
12/16/69	LA.	230,460,743	66,908,196
TOTAL		301,497,681	110,945,535

Source: U.S. Department of the Interior, Bureau of Land Management

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS
7/21/70	LA.	$ 163,451,158	$ 97,769,013
12/15/70	LA.	2,877,429,559	846,784,660
TOTAL		3,040,880,717	944,553,673
11/4/71	LA.	172,735,981	96,304,523
9/12/72	LA.	1,599,155,464	585,827,925
12/19/72	LA.	6,191,018,227	1,665,519,631
TOTAL		7,962,909,672	2,347,652,079
6/19/73	TEX.-LA.	6,248,160,989	1,591,397,380
12/20/73	MISS., LA., FLA.	3,404,892,969	1,491,065,231
TOTAL		9,653,053,958	3,082,462,611
3/28/74	LA.	6,474,003,574	2,092,510,854
5/29/74	TEX.	3,354,292,556	1,471,851,831
7/30/74	LA.-TEX.	88,799,354	30,236,800
10/16/74	LA.	2,514,518,419	1,427,242,455
10/16/74	LA.ROYALTY	7,238,500	1,018,875
TOTAL		12,438,852,403	5,022,860,815
2/04/75	Texas	$ 484,721,874	$ 274,690,955
5/28/75	La.-Tex.	402,752,335	232,916,050
7/29/75	La.-Tex.	317,001,333	163,214,006
12/11/75	S. Cal.	901,960,364	417,312,141
TOTAL		2,106,435,906	1,088,133,152
2/18/76	Fla., La., Tx.	428,003,629	175,976,493
4/13/76	Alaska	1,732,170,868	559,836,587
8/17/76	MAL(1)	3,153,411,802	1,127,936,425
11/16/76	La.-Tx.	833,015,950	379,148,962
TOTAL		6,146,602,249	2,242,898,467
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432
10/27/77	Alaska	643,559,393	388,488,081
	(Royalty)	33,516,288	9,983,232
TOTAL		3,605,166,895	1,568,564,745
3/28/78	S. Al	150,927,700	100,743,443
4/25/78	La.-Tx.	1,559,345,259	733,656,893
10/31/78	Al., Fla., Ms.	87,592,568	61 176,730
12/19/78	La.-Tx.	2,355,263,307	871,464,998
TOTAL		4,153,128,834	1,767,042,064

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(1) Middle Atlantic

Source: U.S. Department of the Interior, Minerals Management Service.

Section XI
Table 11b

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS
2/28/79	MAL(1)	$ 66,005,881	$ 40,001,631
6/29/79	Ca.	994,683,700	572,825,418
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022
11/27/79	La.-Tx.	4,683,195,907	1,413,337,938
12/11/79	Ak.	945,445,102	488,691,138
12/18/79	NA(2)	1,270,789,889	816,516,546
TOTAL		11,294,111,099	5,078,861,693
9/30/80	La.	7,109,464,692	2,676,927,673
10/21/80	Ak.	197,417,470	109,751,073
11/18/80	Tx.	3,500,570,271	1,417,961,511
TOTAL		10,807,452,033	4,204,640,257
5/28/81	Ca.	4,835,810,689	2,038,566,639
6/30/81(6)	Ak.	5,582,362	170,496
7/21/81	GOM(4)	5,227,548,535	2,649,628,752
8/04/81	So. Atl.	561,050,365	342,766,174
9/29/81	Cook In.	4,697,309	4,405,899
10/20/81	GOM(4)	2,402,400,552	1,243,468,752
12/08/81	MAL	578,952,000	323,659,000
TOTAL		13,666,041,312	6,602,665,712
2/09/82	GOM	2,683,699,843	1,193,654,719
6/11/82	Ca.	210,486,278	117,875,281
8/05/82	Atl.,Ca.,Ak.	14,439,195	11,149,450
10/13/82	Ak.	4,591,972,518	2,055,632,336
11/17/82	GOM	NA	609,178,223
TOTAL		7,500,597,834	3,987,490,009
3/08/83	GOM	N.A.	37,570,900
3/15/83	Ak.	N.A.	317,873,372
4/12/83	Ak.	N.A.	426,458,830
4/26/83	MAL	N.A.	68,410,240
5/25/83	GOM	N.A.	3,367,606,134
7/26/83	SAL	N.A.	13,362,040
8/24/83	GOM	N.A.	1,501,712,517

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(1) Middle Atlantic
(2) North Atlantic
(4) Gulf of Mexico
(6) RESALE

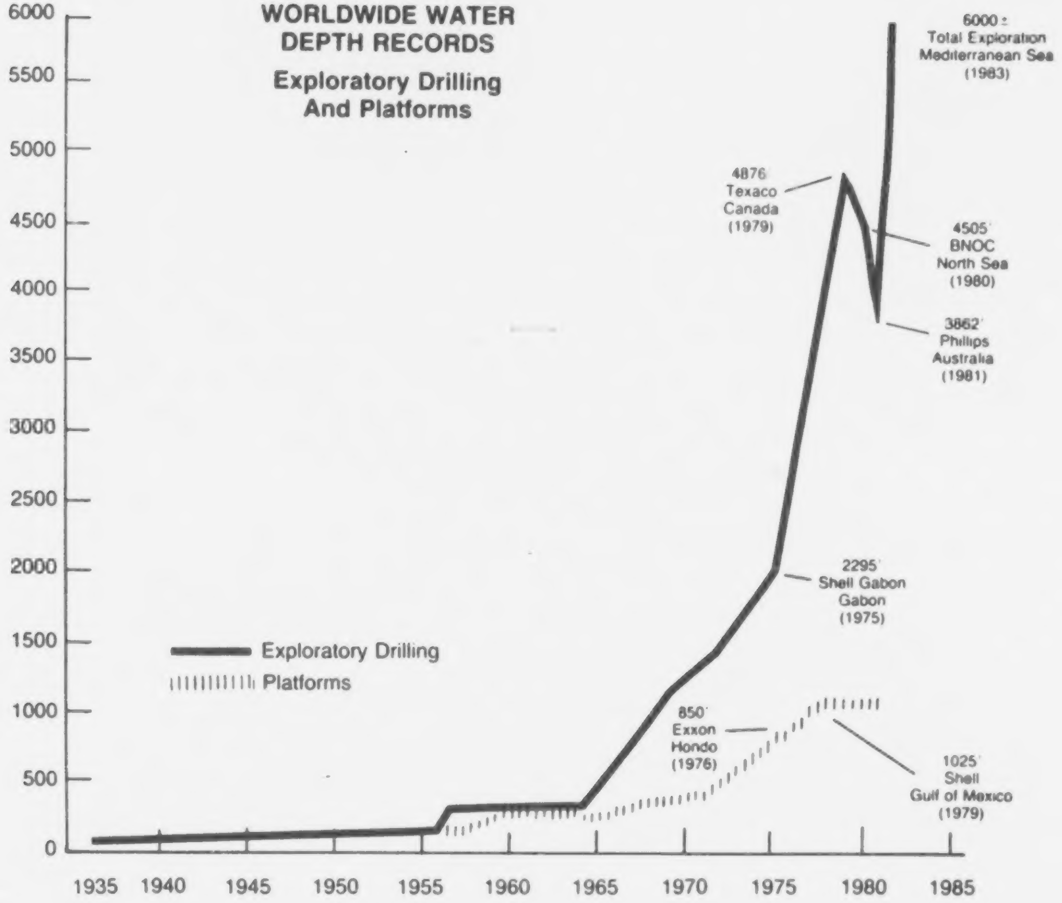
Source: U.S. Department of the Interior, Minerals Management Service.

UNITED STATES OFFSHORE PLATFORMS
MULTIWELL, SINGLE WELL, AND OTHER TYPES
January 1, 1981

	Multiwell	Single	Others	Total
Louisiana	1,206	2,053	211	3,470
Texas	153	163	9	325
California	25	0	0	25
Alaska	14	0	0	14
TOTALS	1,398	2,216	220	3,834

Source: Offshore Oil Scouts, New Orleans, January 1981

Section XI
Table 13



WORLDWIDE WATER DEPTH RECORDS
Exploratory Drilling And Platforms

SOURCE: Offshore Magazine, June 20, 1982

Section XI
Table 14

EIGHT-YEAR OCS BLOWOUT EXPERIENCE, 1971-82.

Type	No.	Pollution	Fatalities Injuries	Other Major Damage
Explor. Drig.	25	None (gas only)		Loss of 2 jackup rigs
Dev. Drig.	21	None (all gas)	4 minor injuries	Loss of 2 platforms
Prod./Comp/WO	31	791 bbls.	None	1 platform destroyed, 1 badly damaged
Total	77			

Source: U.S. Department of Interior, Federal Offshore Statistics, December 1983

OIL SPILL INCIDENTS OF 238 OR MORE BARRELS
OCS-GULF OF MEXICO

Calendar Year	Incidents	Oil Spilled	Number of Structures	Annual OCS Oil Production
1964	5	14,928 barrels	1,100	115 million barrels
1965	2	2,188 barrels	1,200	136 million barrels
1966	0	None	1,325	175 million barrels
1967	1	160,639 barrels	1,450	206 million barrels
1968	1	6,000 barrels	1,575	250 million barrels
1969	6	30,024 barrels	1,675	285 million barrels
1970	3	83,895 barrels	1,800	312 million barrels
1971	1	450 barrels	1,891	359 million barrels
1972	0	None	1,935	356 million barrels
1973	4	22,175 barrels	2,001	342 million barrels
1974	2	22,046 barrels	2,054	316 million barrels
1975	0	None	2,079	288 million barrels
1976	2	4,300 barrels	2,096	281 million barrels
1977	2	550 barrels	2,248	250 million barrels
1978	0	None	2,327	255 million barrels
1979	1	1,500 barrels	2,420	246 million barrels
1980	1	1,456 barrels	2,554	248 million barrels
Total	31	350,151 barrels	2,554	4,420 million barrels

Source: U.S. Geological Survey: Accidents connected with Federal Oil and Gas Operations on the Outer Continental Shelf, Gulf of Mexico, Addendum to Volume 1, March 1981

HISTORICAL DATA ON LEASING
CONTINENTAL SEABEDS ADJACENT TO THE UNITED STATES
(THOUSANDS OF SQUARE STATUTE MILES)

Region	State Lands[1]	OCS "Shelf" (Between State Limit and 200 Meter Depth)	Continental Slope (Between 200 and 2500 Meter Depths)	Total OCS
Hawaii	—	0.4[2]	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5 559,040,000 Ac.	478.7 306,368,000 Ac.	1,352.2 865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
TOTAL FEDERAL OCS ACREAGE EVER OFFERED FOR LEASE THROUGH 8/4/81	47,165,293	8.4	5.5
TOTAL FEDERAL OCS LEASED THROUGH 8/4/81	20,511,938	3.7	2.4
TOTAL FEDERAL OCS CURRENTLY UNDER LEASE 8/4/81[3]	11,400,000	2.0	1.3

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[1] Areas within three nautical miles of coastline, except for Texas and Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.

[2] Includes state areas.

[3] Approximate acreage figure is used because of constant company relinquishments of leases—approximately 200 leases relinquished each year.

Source: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

BASIN RANKING
5-YEAR OCS OIL AND GAS LEASING PROGRAM

	Resource Potential		Interest in Exploration
	Industry	Geological Survey	Industry
1.	Central & West Gulf	Central & West Gulf	Central & West Gulf
2.	Beaufort Sea	Chukchi	Santa Barbara
3.	Santa Barbara	Beaufort	Beaufort Sea
4.	Mid-Atlantic	Mid-Atlantic	Bristol Basin
5.	St. George Basin	St. George Basin	North Atlantic
6.	Bristol Basin	Santa Barbara	Mid-Atlantic
7.	Southern California	Eastern Gulf of Alaska	Central & North California
8.	North Atlantic	North Atlantic	Southern California
9.	Norton Basin	Cook Inlet	St. George
10.	Chukchi Sea	Southern California	Norton
11.	Navarin Basin	Eastern Gulf of Mexico	Eastern Gulf
12.	Central & Northern California	Bristol Bay Basin	Navarin
13.	Blake Plateau	Norton	Cook Inlet
14.	Hope Basin	Navarin	Hope Basin
15.	Eastern Gulf of Mexico	South Atlantic	Blake Plateau
16.	Cook Inlet	Northern California	Gulf of Alaska
17.	Gulf of Alaska	Blake Plateau	Chukchi Sea
18.	South Atlantic	Kodiak	South Atlantic
19.	Kodiak	Hope	Washington-Oregon
20.	Washington-Oregon	Washington-Oregon	Florida Straits
21.	Southern Aleutian	Aleutian Shelf	Kodiak Shelf
22.	Florida Straits	Florida Straits	South Aleutian

Source: Department of Interior; March 9, 1979: Secretarial Issue Document, 5-Year Lease Schedule.

BASIC PETROLEUM DATA BOOK

SECTION XII. TRANSPORTATION

Table 1. U.S. Gas Utility Industry Miles of Pipeline and Main by Type

Table 2. U.S. Tank Ship Fleet (Actual and T2-SE-Al Equivalents)

Table 3. World Tank Ship Fleet (Actual and T2-SE-Al Equivalents)

Table 4. Age Distribution of World Tanker Fleet by Major Flag of Registry

Table 5. Spills of Oil and Other Substances

Table 6. Total and Average Consumption of Motor Fuel by U.S. Motor Vehicles

Table 7. Total and Average Travel by U.S. Motor Vehicles

Section XII
Table 1

U.S. GAS UTILITY INDUSTRY
MILES OF PIPELINE AND MAIN, BY TYPE(1)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1947	27.1	88.0	127.8	242.9
1948	29.2	92.0	138.2	259.4
1949	30.9	98.3	152.3	281.5
1950	32.8	113.1	241.6	387.5
1951	34.6	119.1	252.9	406.6
1952	38.4	123.4	263.5	425.3
1953	41.5	130.4	274.5	446.4
1954	43.8	139.0	287.7	470.5
1955	45.7	145.9	305.1	496.7
1956	47.6	153.8	323.8	525.2
1957	50.0	160.1	338.7	548.8
1958	52.0	165.4	354.1	571.5
1959(2)	54.1	174.3	371.4	599.8
1960(3)	55.8	183.7	391.4	630.9
1961	56.7	191.9	410.4	659.0
1962	58.7	196.4	428.1	683.2
1963	60.7	200.9	448.3	709.9
1964	61.0	205.4	469.8	736.2
1965	61.7	211.3	494.5	767.5
1966	63.0	217.0	519.6	799.6
1967	63.7	225.4	539.2	828.3
1968	64.4	234.5	562.7	861.6
1969	64.9	248.1	578.6	891.6
1970	66.3	252.2	594.8	913.3
1971	66.2	254.8	610.4	931.4
1972	66.9	258.1	623.1	948.1
1973	65.9	263.1	633.8	962.9
1974	66.4	262.2	645.6	974.1
1975	68.5	262.6	648.2	979.3
1976	70.3	258.2	659.1	987.7
1977	71.5	260.5	666.9	998.9
1978	74.9	260.6	677.5	1,013.8
1979	77.8	263.5	688.5	1,029.8
1980	83.2	266.9	700.1	1,050.2
1981	86.2	269.7	708.3	1,064.2
1982	90.5	271.7	720.9	1,083.1

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(1) Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.
(2) These figures and those for subsequent years include Hawaii.
(3) These figures and those for subsequent years include Alaska.

Source: American Gas Association, Gas Facts

Section XII
Table 2

U.S. TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

Year [1]	ACTUAL FLEET				T2-SE-A1 Equivalents
	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	
Jan. 1, 1947	951	8,784,894	14,035,000	13.86	800.5
Oct. 1, 1947	744	6,995,223	11,171,400	14.07	646.4
April 1, 1948	621	5,878,786	9,395,500	14.0	541.9
Jan. 1, 1949	593	5,656,497	9,016,200	14.1	524.2
Sept. 1, 1949	578	5,439,009	8,639,800	14.4	513.2
Sept. 1, 1950	559	5,322,698	8,460,700	14.5	505.1
April 1, 1951	560	5,363,699	8,520,800	14.6	510.0
Oct. 1, 1952	550	5,284,400	8,446,400	14.6	508.3
1953	550	5,475,800	8,639,800	14.8	525.3
1954	525	5,376,500	8,446,200	15.0	521.7
1955	490	5,094,900	7,989,500	15.1	497.4
1956	477	5,040,700	7,892,700	15.2	493.4
1957	470	5,097,400	7,959,900	15.4	503.1
1958	474	5,316,100	8,309,200	15.5	529.5
1959	485	5,593,600	8,766,300	15.6	563.0
1960	478	5,664,000	8,894,600	15.7	575.0
1961	469	5,751,400	9,085,300	15.8	590.1
1962	456	5,726,900	9,045,300	15.9	589.8
1963	440	5,631,000	8,912,600	15.9	583.5
1964	422	5,553,400	8,816,300	16.0	579.3
1965	410	5,479,800	8,733,500	16.0	575.8
1966	387	5,343,700	8,549,900	16.1	566.3
1967	382	5,322,800	8,550,700	16.1	566.4
1968	380	5,337,300	8,655,700	16.1	574.6
1969	365	5,319,400	8,797,900	16.1	584.9
1970	350	5,305,800	8,911,000	16.2	593.4
1971	347	5,453,100	9,218,200	16.3	616.5
1972	328	5,411,300	9,253,300	16.4	621.0
1973	312	5,507,000	9,525,200	16.3	640.3
1974	306	5,798,068	10,236,221	16.4	689.9
1975	293	5,943,289	10,601,370	16.4	714.5
1976	290	6,357,974	11,565,138	16.4	779.3
1977	298	7,128,519	13,054,810	16.3	875.4
1978	316	8,075,188	14,613,837	16.3	908.8
1979	313	9,061,313	16,559,318	16.3	1,113.3

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(1) Figures as of December 31: other figures as of date indicated.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976
Sun Transport Inc., Analysis of World Tank Ship Fleet, 1977-1979

WORLD TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

Year (1)	ACTUAL FLEET Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1947	1,925	15,692,962	24,278,900	12.87	1,285.1
Oct. 1, 1947	1,868	15,286,141	23,585,800	13.0	1,271.4
April 1, 1948	1,863	15,364,543	23,692,400	12.9	1,264.3
Jan. 1, 1949	1,872	15,459,372	23,815,800	12.1	1,274.4
Sept. 1, 1949	1,955	16,249,603	24,932,400	13.2	1,352.3
Sept. 1, 1950	2,056	17,567,202	26,957,200	13.3	1,469.7
April 1, 1951	2,131	18,453,538	28,255,100	13.3	1,544.1
Oct. 1, 1952	2,292	20,417,100	31,318,300	13.4	1,726.8
1953	2,502	23,473,900	35,732,300	13.6	2,003.5
1954	2,602	25,733,900	39,137,300	13.9	2,244.0
1955	2,681	27,338,600	41,623,100	14.0	2,398.1
1956	1,778	29,455,500	44,882,600	14.2	2,614.2
1957	2,954	33,046,800	50,424,800	14.4	2,988.2
1958	3,146	37,020,100	56,640,700	14.6	3,403.3
1959	3,276	40,831,500	62,657,800	14.8	3,826.1
1960	3,264	42,801,300	65,780,400	15.1	4,076.0
1961	3,250	44,701,000	68,859,400	15.2	4,304.8
1962	3,259	46,630,100	71,995,700	15.3	4,542.9
1963	3,279	49,168,600	76,179,500	15.4	4,841.3
1964	3,359	54,468,900	85,125,700	15.6	5,455.3
1965	3,436	59,158,200	93,171,900	15.7	5,984.4
1966	3,524	64,787,600	102,908,800	15.7	6,641.4
1967	3,613	69,965,500	112,366,200	15.7	7,274.6
1968	3,775	78,169,730	128,128,100	15.8	8,311.9
1969	3,893	86,821,100	146,029,100	15.8	9,461.5
1970	4,002	97,599,779	167,940,200	15.8	10,924.9
1971	4,207	111,681,295	193,891,100	15.8	12,577.0
1972	4,342	124,431,430	221,204,200	15.8	14,340.5
1973	4,572	142,413,985	256,821,730	15.8	16,634.2
1974	4,892	165,723,032	302,276,779	15.7	19,542.5
1975	5,112	188,212,834	348,586,400	15.7	22,547.7
1976	5,140	203,938,871	382,533,975	15.7	24,762.9
1977	5,013	206,348,687	390,165,427	15.7	25,249.8
1978	4,731	202,581,402	386,123,276	15.7	24,984.4
1979	4,800	205,823,484	390,206,275	15.7	25,257.7

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(1) Figures as of December 31: other figures as of date indicated.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976
Sun Transport Inc., Analysis of World Tank Ship Fleet, 1977-1979

Section XII
Table 4

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY(1)
(As of December 31, 1979)

Year of Construction	UNITED STATES		LIBERIA		UNITED KINGDOM		JAPAN		NORWAY		GREECE		FRANCE		PANAMA	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Before 1955	110	2,564,988	12	263,014	6	126,106	7	128,688	1	17,281	19	271,416	1	18,471	17	442,559
1955	6	184,687	3	116,360	3	63,162	0	0	0	0	6	105,093	0	0	0	0
1956	6	185,697	4	104,954	0	0	0	0	2	41,420	14	316,685	0	0	4	87,646
1957	10	333,468	7	231,313	1	8,959	1	3,677	1	19,706	7	169,451	0	0	2	61,884
1958	13	416,145	11	449,190	6	130,866	1	44,673	1	10,679	22	488,403	0	0	11	298,137
1959	15	549,097	18	970,876	6	131,034	2	63,951	3	59,759	20	508,183	0	0	13	473,088
1960	9	364,774	12	367,787	7	161,376	0	0	1	19,713	18	550,710	3	75,215	9	272,421
1961	7	310,691	19	680,674	7	248,409	2	54,805	3	125,999	9	283,683	3	112,088	5	174,921
1962	4	225,430	12	445,814	7	258,093	4	276,350	3	63,597	12	442,080	2	9,370	7	231,931
1963	5	201,523	17	1,119,892	7	276,645	1	74,259	3	84,963	15	861,644	2	91,344	6	140,880
1964	5	196,409	43	2,705,875	11	435,930	5	360,103	1	45,975	19	1,332,118	0	0	7	471,561
1965	2	95,499	44	2,615,585	13	477,689	10	637,051	1	20,791	25	1,706,697	3	92,727	9	557,841
1966	1	37,884	37	3,117,685	5	228,716	9	667,449	5	317,953	17	1,243,893	2	147,164	10	637,904
1967	1	94,518	40	3,377,269	8	517,065	12	906,582	10	462,106	23	1,927,749	2	37,315	5	379,959
1968	3	113,866	33	3,654,003	16	819,392	10	901,871	12	735,795	13	1,421,729	5	544,350	20	854,949
1969	9	420,703	35	4,570,172	11	1,224,381	20	2,679,922	12	1,368,931	14	2,408,120	7	825,955	11	175,739
1970	11	568,847	56	8,529,683	18	2,315,488	13	2,004,920	17	1,889,124	16	1,948,995	4	702,546	1	10,408
1971	8	473,420	78	10,299,128	21	2,108,182	25	3,593,584	24	2,909,981	14	1,178,692	14	2,257,040	5	262,745
1972	7	451,733	59	9,906,735	30	2,398,922	33	5,870,899	13	1,761,310	16	1,911,302	7	900,340	11	1,614,325
1973	8	777,861	68	12,118,784	31	2,980,141	47	5,946,034	23	4,422,034	13	1,075,055	12	2,171,232	8	462,065
1974	10	851,690	97	16,281,390	31	4,778,593	37	3,512,975	27	3,437,932	9	841,709	13	2,901,466	12	1,549,355
1975	13	927,970	117	18,510,541	34	4,417,194	33	4,105,567	34	4,916,093	2	162,390	7	1,162,281	14	1,343,940
1976	12	1,170,299	77	12,085,820	15	2,363,920	38	4,441,803	34	3,846,425	10	1,541,028	13	2,923,019	17	1,469,025
1977	15	1,620,099	41	6,179,878	11	1,090,012	23	827,266	18	1,550,086	3	525,249	6	957,448	8	1,061,674
1978	12	1,463,646	22	1,857,941	10	1,413,655	31	428,506	11	969,707	1	32,389	0	0	3	207,587
1979	11	1,958,374	22	1,476,313	9	522,296	50	1,194,154	13	476,950	2	167,717	1	554,000	5	56,026
Total	313	16,559,318	984	122,036,676	324	29,496,226	414	38,725,069	273	29,574,310	339	23,422,180	107	16,483,371	220	13,298,570
Average Age	11 yrs. 3 mos.		7 yrs. 4 mos.		7 yrs. 1 mo.		7 yrs. 1 mo.		6 yrs. 3 mos.		11 yrs. 6 mos.		6 yrs. 4 mos.		9 yrs. 7 mos.	

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(1) Ocean-going vessels 2,000 gross tons and over.

Source: Sun Transport, Inc., Analysis of World Tank Ship Fleet

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY(1)
(As of December 31, 1979)

Year of Construction	ITALY		SWEDEN		U.S.S.R.		WEST GERMANY		SPAIN		SINGAPORE		ALL OTHERS		TOTAL	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Before 1955	17	253,673	0	0	12	133,791	0	0	2	16,465	4	61,085	79	1,131,569	287	5,429,086
1955	4	59,790	0	0	10	103,263	0	0	0	0	1	5,325	12	164,661	45	802,341
1956	4	64,054	0	0	13	132,941	0	0	0	0	3	53,583	11	195,110	61	1,182,090
1957	6	128,747	0	0	13	126,615	0	0	0	0	2	42,122	14	225,765	64	1,351,707
1958	8	156,843	0	0	8	50,768	0	0	3	27,650	5	115,916	17	347,729	106	2,536,999
1959	4	81,244	0	0	14	151,755	0	0	2	28,810	3	102,158	23	604,936	123	3,724,891
1960	5	182,911	0	0	17	319,978	0	0	6	88,503	1	20,264	35	944,615	123	3,368,267
1961	6	191,483	0	0	11	155.249	0	0	2	43,597	0	0	22	562,829	96	2,944,428
1962	1	38,594	1	7,291	18	306,530	1	54,142	4	89,581	2	109,421	24	675,086	102	3,233,310
1963	5	259,774	0	0	19	401,045	1	48,800	2	18,710	1	44,066	16	684,269	100	4,307,814
1964	2	52,898	0	0	27	814,080	0	0	0	0	1	53,342	21	803,505	142	7,271,796
1965	4	59,906	2	7,978	24	564,950	0	0	2	59,713	2	8,080	30	1,287,265	171	8,191,772
1966	4	250,153	1	121,185	28	601,009	1	65,499	0	0	3	162,471	35	1,594,501	158	9,193,466
1967	2	99,380	1	3,400	19	240,685	2	217,809	3	188,450	0	0	39	1,353,498	167	9,805,785
1968	6	354,970	0	0	16	237,086	3	421,674	4	204,048	1	3,397	39	2,234,075	181	12,501,205
1969	7	249,641	6	367,207	24	262,114	1	257,995	6	336,175	1	75,573	35	2,310,477	199	17,533,105
1970	8	823,623	3	26,604	26	275,648	2	221,713	6	261,297	0	0	30	2,939,636	211	22,518,532
1971	5	634,772	0	0	13	102,950	1	2,591	4	420,764	5	244,329	22	1,871,173	239	26,359,351
1972	8	1,094,876	3	518,320	14	93,342	1	5,702	4	818,344	3	207,544	24	974,059	233	28,527,753
1973	16	1,411,201	10	642,717	16	110,593	3	317,158	6	568,871	2	188,887	54	4,306,806	317	37,499,439
1974	13	1,616,840	4	504,203	5	30,769	13	2,148,098	6	738,787	12	1,023,726	75	6,185,734	364	46,403,267
1975	18	1,601,067	5	749,239	19	681,903	7	633,729	7	1,033,439	21	1,768,934	74	6,525,784	405	48,540,071
1976	8	1,533,420	7	1,333,566	21	546,587	10	1,522,783	9	1,163,379	15	1,364,351	71	6,076,414	357	43,381,839
1977	6	649,917	4	574,565	16	372,342	2	12,811	12	2,292,617	1	96,531	50	4,813,669	216	22,624,164
1978	6	922,144	1	498,995	20	730,336	1	4,000	7	895,958	0	0	36	1,617,006	161	11,041,870
1979	1	10,250	7	507,900	16	459,173	0	0	4	74,469	3	161,600	28	2,312,705	172	9,931,927
Total	174	12,782,171	55	5,863,170	439	8,005,502	49	5,934,504	101	9,369,627	92	5,912,705	916	52,742,876	4,800	390,206,275
Average Age	7 yrs. 7 mos.		4 yrs. 7 mos.		10 yrs. 8 mos.		6 yrs. 3 mos.		5 yrs. 5 mos.		6 yrs. 7 mos.		7 yrs 9 mos.		7 yrs. 8 mos.	

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(1) Ocean-going vessels 2,000 gross tons and over.

Source: Sun Transport, Inc., Analysis of World Tank Ship Fleet

Section XII
Table 5

SOURCES OF OIL SPILLS AND OTHER SUBSTANCES
1980
(GALLONS)

SOURCE	OIL		HAZARDOUS		OTHER		TOTAL	
	NO.	VOLUME	NO.	VOLUME	NO.	VOLUME	NO.	VOLUME
VESSELS								
Tank Ships..................	499	1,471,906	6	527	13	28,812	518	1,501,245
Tank Barges..................	751	1,596,076	22	33,999	28	1,767	801	1,631,845
Dry Cargo Barges.............	22	365	-	-	4	4,100	26	4,465
Dry Cargo Ships..............	269	39,211	1	5	15	630	285	38,846
Combatants...................	120	22,071	-	-	2	1	122	22,072
Other........................	1,057	174,672	3	2,010	57	927	1,117	177,609
TOTAL.....................	2,718	3,304,304	32	36,541	119	36,237	2,869	3,377,082
LAND VEHICLES								
Rail.........................	31	66,485	14	17,095	9	50,171	54	133,751
Highway......................	156	102,161	8	2,083	12	8,090	176	112,334
Other........................	43	3,150	-	-	4	8	47	3,158
TOTAL.....................	230	171,796	22	19,178	25	58,269	277	249,243
NON-TRANSPORT, ON/OFFSHORE								
Refinery.....................	76	110,054	5	33,110	6	43	87	143,207
Bulk Storage.................	223	362,005	3	368,510	10	9,326	236	739,841
Onshore Production...........	105	101,024	-	-	9	4,017	114	105,041
Offshore Production..........	574	115,248	-	-	28	2,113	602	117,361
Other........................	479	167,526	37	48,501	70	50,044	586	266,071
TOTAL.....................	1,457	855,857	45	450,121	123	65,543	1,625	1,371,521
PIPELINES......................	475	1,719,420	4	46,503	10	860	489	1,766,783
MARINE FAC. ON/OFFSHORE								
Fuel Transfer................	88	19,850	-	-	-	-	88	19,850
Bulk Transfer................	286	759,079	10	19,370	14	298	310	781,435
Non-Bulk Transfer............	36	802	1	40,000	4	398	41	41,200
Other........................	109	16,105	2	210	7	7,127	118	23,442
TOTAL.....................	519	795,836	13	59,580	25	10,511	557	865,927
LAND FACILITIES................	110	60,773	-	-	8	4,783	118	65,556
MISC/UNKNOWN...................	2,328	424,713	17	13,542	1,298	84,203	3,643	522,458
GRAND TOTAL................	7,837	7,332,699	133	625,465	1,608	260,406	9,578	8,218,570

Source: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1979 and 1980

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1947	30,872	20,086	651	6,650	7,243	1,089	176	778	4,420
1948	33,394	21,369	640	7,379	8,189	1,110	184	780	4,239
1949(3)	36,453	22,957	630	8,028	8,666	1,079	209	711	3,402
1950(3)	40,334	25,238	626	8,604	9,526	1,107	224	782	3,491
1951(3)	42,682	26,990	632	9,001	10,138	1,132	230	836	3,635
1952(3)	43,818	28,729	656	9,207	10,844	1,178	240	890	3,708
1953(3)	46,460	30,249	654	9,576	11,418	1,192	244	937	3,840
1954	48,413	30,915	639	9,726	12,541	1,289	233	755	3,240
1955	52,092	33,548	644	10,413	13,308	1,278	255	771	3,024
1956	54,249	35,326	651	10,737	13,978	1,302	255	802	3,145
1957	56,375	36,769	652	10,961	14,271	1,302	264	825	3,125
1958	57,392	38,095	644	11,159	14,514	1,301	270	809	2,996
1959(4)	60,132	40,056	666	11,671	15,453	1,324	265	823	3,106
1960	62,258	41,169	661	11,945	15,882	1,330	272	827	3,040
1961	63,870	42,033	658	12,291	16,443	1,338	281	830	2,954
1962	66,638	43,771	657	12,809	17,089	1,334	288	837	2,906
1963	69,842	45,246	648	13,360	18,432	1,380	298	838	2,812
1964	72,969	47,567	652	14,013	19,470	1,389	305	864	2,833
1965	76,634	50,275	656	14,795	19,935	1,347	314	894	2,847
1966	80,106	53,312	666	15,517	20,415	1,316	324	896	2,765
1967	82,367	55,110	669	16,193	21,673	1,338	338	910	2,692
1968	85,793	58,524	682	16,995	23,482	1,382	352	932	2,648
1969	89,156	62,448	700	17,871	24,727	1,384	364	947	2,602
1970	92,095	65,784	714	18,748	25,600	1,365	379	944	2,491
1971	96,144	69,514	723	19,802	27,086	1,368	397	947	2,385
1972	100,658	73,463	730	21,239	30,718	1,446	407	881	2,165
1973	106,119	78,011	735	23,233	31,615	1,361	426	847	1,988
1974	109,823	74,217	676	24,630	31,226	1,268	447	858	1,919

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.
(3) Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953: Bureau of Public Roads data not available
(4) Includes Alaska and Hawaii beginning in 1959.

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data", Federal Highway Administration after 1969. American Petroleum Institute

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1975	111,679	76,457	685	25,776	31,632	1,227	462	895	1,937
1976	115,170	78,847	685	27,779	35,890	1,292	478	964	2,015
1977	118,711	80,677	680	29,562	37,964	1,284	492	984	2,002
1978	121,717	83,775	688	31,703	40,271	1,270	500	1,021	2,041
1979	125,750	80,233	638	33,350	40,859	1,225	520	1,023	1,966
1980	127,448	73,375	603	33,637	40,150	1,194	529	1,076	2,034
1981	129,123	71,718	555	34,451	41,637	1,209	544	1,098	2,019
1982	129,441	69,730	539	35,253	42,534	1,207	559	1,120	2,003

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.

Source: Federal Highway Administration

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	300,440	9,732	14.95	66,203	9,955	9.14	4,251	24,153	5.46
1948	319,665	9,573	14.96	74,009	10,030	9.04	4,283	23,277	5.49
1949(3)	342,478	9,395	14.92	77,731	9,682	8.97	4,252	20,344	5.98
1950(3)	363,613	9,015	14.40	90,552	10,524	9.51	4,081	18,219	5.22
1951(3)	392,131	9,187	14.54	94,844	10,537	9.31	4,118	17,904	4.92
1952(3)	410,187	9,361	14.27	99,060	10,759	9.13	4,334	18,058	4.87
1953(3)	435,351	9,370	14.39	104,633	10,927	9.17	4,449	18,234	4.75
1954	450,605	9,308	14.57	105,844	10,833	8.44	4,408	18,918	5.84
1955	487,540	9,359	14.53	111,387	10,697	8.37	4,507	17,675	5.85
1956	507,138	9,348	14.36	116,100	10,813	8.31	4,605	18,059	5.74
1957	529,405	9,391	14.40	113,206	10,328	7.93	4,393	16,640	5.32
1958	544,873	9,494	14.30	115,470	10,348	7.96	4,310	15,963	5.33
1959(4)	572,976	9,529	14.30	123,154	10,552	7.97	4,348	16,408	5.28
1960	588,083	9,446	14.28	126,409	10,583	7.96	4,353	16,004	5.26
1961	604,557	9,465	14.38	128,582	10,461	7.82	4,396	15,644	5.30
1962	629,097	9,441	14.37	133,289	10,406	7.80	4,466	15,507	5.34
1963	645,371	9,240	14.26	155,569	11,644	8.44	4,483	15,044	5.35
1964	677,613	9,286	14.25	164,271	11,723	8.43	4,616	15,134	5.34
1965	711,594	9,286	14.15	171,436	11,587	8.60	4,782	15,229	5.35
1966	751,740	9,384	14.10	173,905	11,207	8.52	4,852	14,975	5.46
1967	774,203	9,399	14.05	182,456	11,268	8.42	4,894	14,479	5.38
1968	814,030	9,488	13.91	196,651	11,571	8.37	4,968	14,114	5.33
1969	858,858	9,633	13.75	206,680	11,565	8.36	5,037	13,838	5.32
1970	900,992	9,783	13.70	214,670	11,450	8.39	5,043	13,306	5.34
1971	954,155	9,924	13.73	227,037	11,465	8.38	5,097	12,807	5.38
1972	1,003,498	9,969	13.67	259,735	12,229	8.46	5,109	12,553	5.80
1973	1,036,455	9,767	13.29	267,147	11,499	8.45	4,960	11,643	5.86
1974	1,013,068	9,225	13.65	267,519	10,861	8.57	5,060	11,320	5.90

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.
(3) Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953: Bureau of Public Roads data not available
(4) Includes Alaska and Hawaii beginning in 1959.

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data." Federal Highway Administration after 1969
American Petroleum Institute

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1975	1,050,472	9,406	13.74	274,454	10,648	8.68	5,148	11,140	5.75
1976	1,098,147	9,535	13.93	307,957	11,086	8.58	5,761	12,045	5.98
1977	1,141,166	9,613	14.15	329,474	11,145	8.68	5,887	11,973	5.98
1978	1,194,287	9,812	14.26	347,909	10,974	8.64	6,072	12,143	5.95
1979	1,162,528	9,245	14.49	360,500	10,810	8.82	6,105	11,732	5.97
1980	1,129,887	8,865	15.32	384,570	11,433	9.58	6,400	12,103	5.95
1981	1,124,843	8,711	15.68	425,127	12,340	10.21	6,501	11,953	5.92
1982	1,148,883	8,876	16.48	436,959	12,395	10.27	6,639	11,872	5.93

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.

Source: Federal Highway Administration

BASIC PETROLEUM DATA BOOK

SECTION XIII. NATURAL GAS

Table 1. Estimated Proved World Reserves of Natural Gas

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Table 10. U.S. Consumption of Natural Gas by State

Section XIII
Table 1

ESTIMATED PROVED WORLD RESERVES OF NATURAL GAS
ANNUALLY AS OF JANUARY 1
(Billions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist(1) Nations	Total World
1967	289,333	43,450	64,550	397,333	215,070	158,155	32,450	88,582	891,590	150,000	1,041,590
1968	292,908	45,682	67,101	405,691	220,670	167,223	40,050	133,965	967,599	215,500	1,183,099
1969	287,350	47,666	62,900	397,916	223,775	168,345	52,724	141,176	983,936	343,000	1,326,936
1970	275,109	51,951	163,150	490,210	235,275	197,143	67,500	150,800	1,140,928	350,000	1,490,928
1971	290,746(1)	53,376	73,100	417,222	354,262	191,516	56,330	147,731	1,167,061	440,000	1,607,061
1972	278,806(1)	55,462	72,700	406,968	343,930	193,018	69,800	163,250	1,176,966	558,000	1,734,966
1973	266,085(1)	52,936	79,218	398,239	344,150	189,015	101,236	178,400	1,211,040	664,400	1,875,440
1974	249,950(1)	52,457	91,321	393,728	413,325	187,720	114,200	193,797	1,302,770	735,400	2,038,170
1975	237,132(1)	56,708	100,214	394,054	672,670	314,974	115,880	202,826	1,700,404	846,000	2,546,404
1976	228,200(1)	56,975	90,487	375,662	538,648	207,152	111,560	180,875	1,413,897	835,000	2,248,897
1977	216,026(1)	58,282	90,325	364,633	536,460	209,077	120,010	141,905	1,372,085	953,000	2,325,085
1978	208,878(1)	59,472	108,480	376,830	719,660	207,504	122,725	138,190	1,564,909	955,000	2,519,909
1979	200,302(1)	59,000	112,950	372,252	730,660	186,290	119,850	143,260	1,552,312	945,000	2,497,312
1980	194,917(1)	85,500	144,500	424,917	740,330	210,350	128,815	135,376	1,639,158	935,000	2,574,158
1981	199,021(1)	87,300	159,811	446,132	752,415	208,470	126,290	159,315	1,692,622	953,900	2,646,522
1982	201,730(1)	89,900	176,323	467,953	762,490	211,667	127,616	150,650	1,720,376	1,194,700	2,915,076
1983(r)	201,512(1)	97,000	186,591	485,103	769,730	189,423	146,247	156,736	1,747,239	1,283,800	3,031,039
1984	200,247	90,500	186,396	477,143	775,047	189,644	156,235	157,328	1,755,397	1,446,800	3,202,197

(r) Revised
(1) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available

Source: 1967-1980: United States-American Gas Association, Committee on Natural Gas Reserves
1981-1984: United States-Department of Energy
Rest of the World-The Oil & Gas Journal "Worldwide Report" issues

THE SUPPLY OF UNITED STATES NATURAL GAS
(Millions of cubic feet - 14.72 psia at 60° F.)

Year	Proved Reserves at Start of Year	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage (4)	Production During Year (1)	Proved Reserves at Year-end
1947	159,703,813	10,921,187	N.A.	5,559,235	165,025,765
1948	165,025,765	13,823,090	51,202	5,975,001	172,925,056
1949	172,925,056	12,605,615	82,146	6,211,124	179,401,693
1950	179,401,693	11,985,361	52,935	6,855,244	184,584,745
1951	184,584,745	15,965,808	132,030	7,923,673	192,785,910
1952	192,758,910	14,267,606	197,766 (2)	8,592,716	198,631,566
1953	198,631,566	20,341,933	513,629	9,188,365	210,298,763
1954	210,298,763	9,547,074	90,408	9,375,314	210,560,931
1955	210,560,931	21,897,616	87,164	10,063,167	222,482,544
1956	222,482,544	24,716,115	133,241	10,848,685	236,483,215
1957	236,483,215	20,008,051	178,761	11,439,890	245,230,137
1958	245,230,137	18,896,724	57,582	11,422,651	252,761,792
1959	252,761,792	20,621,249	160,453	12,373,063	261,170,431
1960	261,170,431	13,893,978	281,273	13,019,356	262,326,326
1961	262,326,326	17,166,421	159,544	13,378,649	266,273,642
1962	266,273,642	19,483,958	159,231	13,637,973	272,278,858
1963	272,278,858	18,164,667	253,733	14,546,025	276,151,233
1964	276,151,233	20,252,139	195,110	15,347,028	281,251,454
1965	281,251,454	21,319,279	150,483	16,252,293	286,468,923
1966	286,468,923	20,220,432	134,523	17,491,073	289,332,805
1967	289,332,805	21,804,333	151,403	18,380,838	292,907,703
1968	292,907,703	13,697,008	118,568	19,373,427	287,349,852
1969	287,349,852	8,375,004	107,169	20,723,190	275,108,835
1970	275,108,835 (3)	37,196,359 (3)	402,018	21,960,804	290,746,408 (3)
1971	290,746,408 (3)	9,825,421	310,301	22,076,512	278,805,618 (3)
1972	278,805,618 (3)	9,634,563	156,563	22,511,898	266,084,846 (3)
1973	266,084,846 (3)	6,825,049	-354,282	22,605,406	249,950,207 (3)
1974	249,950,207 (3)	8,679,184	-178,424	21,318,470	237,132,497 (3)

N.A. Not Available
(1) Estimated.
(2) All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.
(3) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska, (discovered in 1968).
(4) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

Source: American Gas Association, Committee on Natural Gas reserves

Section XIII
Table 2a

THE SUPPLY OF UNITED STATES NATURAL GAS
(Millions of cubic feet - 14.72 psia at 60° F.)

Year	Proved Reserves at Start of Year(3)	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(4)	Production During Year(1)	Proved Reserves at Year-end(3)
1975	237,132,497	10,483,688	302,561	19,718,570	228,200,176
1976	228,200,176	7,555,468	-187,550	19,542,020	216,026,047
1977	216,026,074	11,851,924	446,930	19,447,050	208,877,878
1978	208,877,878	10,586,144	148,733	19,311,048	200,301,707
1979	200,301,707	14,285,947	239,323	19,910,353	194,916,624
1980	200,997,000	16,723,000	N.A.	18,699,000	199,021,000
1981	199,021,000	21,446,000	N.A.	18,737,000	201,730,000
1982	201,730,000	17,288,000	N.A.	17,506,000	201,512,000
1983	201,512,000	14,523,000	N.A.	15,788,000	200,247,000

N.A. Not Available

(1) Estimated.

(3) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska.

(4) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

Source: 1975-1979-American Gas Association, Committee on Natural Gas reserves
1980-1983-U.S. Department of Energy, Energy Information Administration

Section XIII
Table 3

The Reserves of U.S. Natural Gas Liquids
(Thousands of Barrels)

	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1947	3,163,219	251,538	160,782	3,253,975	20.2
1948	3,253,975	470,557	183,749	3,540,783	19.3
1949	3,540,783	386,776	198,547	3,729,012	18.8
1950	3,729,012	766,062	227,411	4,267,663	18.8
1951	4,267,663	723,991	267,052	4,724,602	17.7
1952	4,724,602	556,838	284,789	4,996,651	17.5
1953	4,996,651	743,969	302,698	5,437,922	18.0
1954	5,437,922	107,350	300,815	5,244,457	17.4
1955	5,244,457	514,508	320,400	5,438,565	17.0
1956	5,438,565	809,820	346,053	5,902,332	17.1
1957	5,902,332	137,392	352,364	5,687,360	16.1
1958	5,687,360	858,206	341,548	6,204,018	18.2
1959	6,204,018	703,444	385,154	6,522,308	16.9
1960	6,522,308	725,130	431,379	6,816,059	15.8
1961	6,816,059	694,686	461,649	7,049,096	15.3
1962	7,049,096	732,549	470,128	7,311,517	15.6
1963	7,311,517	878,120	515,659	7,673,978	14.9
1964	7,673,978	608,744	536,090	7,746,632	14.4
1965	7,746,632	832,312	555,410	8,023,534	14.4
1966	8,023,534	894,116	588,684	8,328,966	14.1
1967	8,328,966	929,758	644,493	8,614,231	13.4
1968	8,614,231	685,659	701,782	8,598,108	12.2
1969	8,598,108	281,028	735,962	8,143,174	11.1
1970	8,143,174	307,579	747,812	7,702,941	10.3
1971	7,702,941	347,720	746,434	7,304,227	9.8
1972	7,304,227	238,273	755,941	6,786,559	9.0
1973	6,786,559	408,979	740,831	6,454,707	8.7
1974	6,454,707	619,841	724,099	6,350,449	8.8
1975	6,350,449	618,504	701,123	6,267,830	8.9
1976	6,267,830	834,766	700,629	6,401,967	9.1
1977	6,401,967	291,171	698,773	5,994,365	8.6
1978	5,994,365	595,666	664,179	5,925,852	8.9
1979	5,925,852	389,805	660,334	5,655,323	8.6
1980(1)	6,615,000	844,000	731,000	6,728,000	9.1
1981	6,728,000	1,081,000	741,000	7,068,000	9.3
1982	7,068,000	874,000	721,000	7,221,000	9.9
1983	7,221,000	1,405,000	725,000	7,901,000	10.9

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(1) Figures beginning with 1980 are from the Department of Energy data, using a different methodology from prior data.

Source: American Gas Association through 1979.
Department of Energy beginning in 1980.

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist[(1)] Nations	Total World
1950	6,282,060	71,692	260,008	6,613,760	0	0	55,420	33,177	6,702,357	N.A.	6,702,357
1951	7,457,359	83,970	201,379	7,742,708	0	0	72,699	52,024	7,867,431	255,268	8,122,669
1952	8,013,457	93,710	223,510	8,330,677	0	0	85,164	61,938	8,477,779	305,390	8,783,169
1953	8,396,916	106,735	255,044	8,758,695	0	149	99,644	100,353	8,958,841	503,559	9,462,400
1954	8,742,546	127,597	273,108	9,143,251	0	299	106,286	131,254	9,381,090	538,340	9,919,430
1955	9,405,351	150,772	356,150	9,912,273	4	456	82,348	189,805	10,184,886	524,883	10,709,769
1956	10,081,923	169,153	368,171	10,619,247	15,552	496	101,762	227,530	10,964,587	656,917	11,621,504
1957	10,680,258	220,007	458,629	11,358,894	25,578	351	114,243	251,798	11,750,864	926,155	12,677,019
1958	11,030,298	337,804	616,117	11,984,219	26,288	4,385	119,716	267,450	12,402,058	1,379,668	13,781,726
1959	12,046,115	417,335	713,974	13,177,424	44,520	14,423	133,309	346,906	13,716,582	1,688,023	15,404,605
1960	12,771,038	522,972	775,931	14,069,941	57,265	5,831	157,846	433,794	14,724,677	2,191,932	16,916,609
1961	13,254,025	655,738	864,075	14,773,838	172,065	20,405	170,671	502,222	15,639,201	2,748,402	18,387,603
1962	13,876,622	946,703	956,436	15,779,761	173,312	31,327	193,565	548,419	16,726,384	3,366,025	20,092,409
1963	14,666,559	1,111,478	702,457	16,480,494	149,155	15,956	135,181	559,969	17,340,755	3,678,193	21,018,948
1964	15,462,143	1,327,664	721,596	17,511,403	162,593	33,198	155,293	608,872	18,471,359	4,397,094	22,868,453
1965	16,039,753	1,442,448	779,949	18,262,150	171,219	67,863	168,306	671,057	19,340,595	5,139,565	24,480,160
1966	17,206,628	1,341,833	828,773	19,377,234	193,147	82,133	198,289	789,916	20,640,719	5,735,512	26,394,231
1967	18,171,325	1,471,725	883,481	20,526,531	229,334	84,968	215,309	1,018,634	22,074,776	6,322,996	28,397,772
1968	19,322,400	1,692,301	1,061,610	22,076,311	388,208	96,460	330,258	1,439,050	24,330,287	7,072,855	31,403,142
1969	20,698,240	1,977,838	1,143,290	23,819,368	441,702	113,802	431,095	2,009,701	26,815,668	7,569,402	34,385,070
1970	21,920,642	2,277,109	1,276,624	25,474,375	454,125	122,242	525,255	2,789,046	29,365,043	8,728,918	38,093,961
1971	22,493,012	2,499,024	1,362,648	26,354,684	697,997	522,631	559,808	3,580,676	31,715,796	9,472,600	41,188,396
1972	22,531,698	2,913,537	1,456,611	26,901,846	905,622	471,835	605,962	4,501,119	33,386,384	10,127,500	43,513,884
1973	22,647,549	3,119,461	1,615,801	27,382,811	1,276,853	585,820	775,942	5,147,986	35,169,412	10,958,376	46,127,788
1974	21,600,522	3,045,506	1,659,071	26,305,099	1,423,416	607,732	880,914	5,837,027	35,054,188	12,117,303	47,171,491

N.A. Not Available

Source: 1950-1967: U.S. Bureau of Mines, Minerals Yearbook, Annual
1968-1974: U.S. Bureau of Mines, World Natural Gas

Section XIII
Table 4a

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World
1975	20,108,661	3,075,693	1,735,060	24,919,414	1,436,210	670,402	938,365	5,966,659	33,931,050	13,276,275	47,207,325
1976	19,952,438	3,067,353	1,722,106	24,741,897	1,492,772	905,792	1,173,878	6,343,593	34,657,932	14,801,281	49,459,213
1977	20,025,463	3,230,672	1,865,734	25,121,869	1,506,982	919,464	1,329,016	6,502,502	35,379,833	14,720,257	50,100,090
1978	19,974,033	3,128,056	2,012,912	25,115,001	1,579,478	1,117,416	1,469,154	6,649,855	35,930,904	15,818,398	51,749,302
1979	20,471,260	3,646,500	2,610,000	26,727,760	1,624,700	1,027,900	1,827,900	6,866,800	38,075,060	19,591,400	57,666,460
1980	20,179,724	2,668,300	3,297,500	26,344,587	1,221,300	884,700	2,558,400	6,668,700	37,677,687	21,069,900	58,747,587
1981	19,955,823	2,623,000	3,227,000	26,027,701	1,542,000	1,947,000	2,765,000	6,906,000	39,187,701	19,210,000	58,397,701
1982	18,519,675	2,546,100	3,071,500	24,137,275	1,799,700	1,168,900	2,176,600	6,142,100	35,424,575	20,258,000	55,682,575
1983(P)	16,599,000	2,414,100	3,340,500	22,353,600	1,633,000	1,143,800	2,187,700	6,383,400	33,701,500	21,383,000	55,084,500

(P) Preliminary

Source: 1975-1978: U.S. Energy Information Administration, World Natural Gas, Annuals
1979-1983: U.S. Energy Information Administration, United States only; Rest of World, Oil and Gas Journal

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	Total Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared
1947	4,582,173	18,149	4,426,544	-	$274,709	86,643	96,316	127,807	1,067,938
1948	5,148,020	18,704	4,945,149	-	333,173	79,035	136,406	126,796	810,178
1949	5,419,736	20,054	5,195,484	-	344,034	106,368	172,051	138,515	853,884
1950	6,282,060	25,727	6,026,404	-	408,521	175,260	229,752	175,437	801,044
1951	7,457,359	24,163	7,102,562	-	542,964	209,428	347,690	192,372	793,186
1952	8,013,457	27,456	7,613,478	7,807	623,649	221,909	398,593	203,646	848,608
1953	8,396,916	28,322	7,979,338	9,225	774,966	246,802	404,838	240,445	810,276
1954	8,742,546	28,726	8,402,852	6,847	882,501	330,177	432,283	215,709	723,567
1955	9,405,351	31,029	9,070,343	10,888	978,357	437,251	505,185	246,933	773,639
1956	10,081,923	35,963	9,706,878	10,380	1,083,812	452,762	589,232	212,992	727,004
1957	10,680,258	41,655	10,279,775	37,941	1,201,759	480,981	672,377	205,373	809,148
1958	11,030,298	38,719	10,760,698	135,797	1,317,492	621,091	704,172	283,597	633,412
1959	12,046,115	18,413	11,819,638	133,990	1,556,800	668,743	787,485	223,312	571,048
1960	12,771,038	11,332	12,509,427	155,646	1,789,970	712,658	844,352	274,231	562,877
1961	13,182,029	10,689	13,010,654	217,671	1,996,241	694,258	839,083	233,532	523,533
1962	13,801,244	15,728	13,814,678	399,353	2,145,301	849,695	935,712	284,174	425,629
1963	14,666,559	16,865	14,560,953	430,997	2,328,030	911,741	1,041,802	362,677	383,408
1964	15,462,143	19,497	15,451,979	440,918	2,387,689	880,498	1,099,302	302,781	339,996
1965	16,039,753	26,132	16,033,189	456,394	2,494,542	959,865	1,077,980	318,711	319,143
1966	17,206,628	14,639	17,191,711	479,780	2,702,759	1,141,614	1,210,469	401,203	374,695
1967	18,171,325	81,614	18,172,894	564,226	2,898,741	1,132,534	1,317,363	296,214	489,877
1968	19,322,400	93,745	19,459,939	651,885	3,168,688	1,329,536	1,425,075	325,062	516,508
1969	20,698,240	51,304	20,922,800	726,951	3,455,615	1,379,488	1,498,988	331,587	525,750

Source: U.S. Bureau of Mines, Natural Gas Annuals

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	Total Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared
1970	21,920,642	69,813	22,045,799	820,780	$3,745,680	1,458,607	1,856,767	227,650	489,460
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	1,507,630	1,839,398	338,999	284,561
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	1,757,218	1,892,952	328,002	248,119
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	1,532,820	1,974,324	195,863	248,292
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	1,700,546	1,784,209	288,731	169,381
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	1,759,565	2,103,619	235,065	133,913
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	1,921,017	1,755,690	216,240	131,930
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	1,749,884	2,306,515	41,063	136,807
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	2,157,765	2,278,002	287,201	153,350
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	2,047,000	2,295,034	372,330	167,019
1980	20,179,724	48,731	19,877,293	984,767	32,043,704	1,909,902	1,896,284	639,559	125,451
1981	19,955,823	59,372	19,403,858	903,949	39,551,253	1,886,940	2,179,683	500,501	98,017
1982	18,519,675	51,728	18,001,055	933,336	45,496,765	2,093,644	2,399,355	474,731	93,365

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(1) Also includes changes in above ground storage and gas unaccounted for.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 6

U.S. IMPORTS OF NATURAL GAS BY SOURCE
(Billion cubic feet)

Year	Canada	Mexico	Algeria(3)	Total Imports	U.S. Natural Gas Consumption
1968	605	47	(2)	652	19,460
1969	680	47	(2)	727	20,923
1970	779(1)	41	3	823	22,046
1971	914(1)	21	3	938	22,677
1972	1,010(1)	8	2	1,020	23,009
1973	1,028(1)	2	3	1,033	22,966
1974	959	(2)	0	959	22,111
1975	948	0	5	953	20,410
1976	954	0	10	964	20,801
1977	997	2	11	1,011	19,521
1978	881	0	84	965	19,627
1979	1,001	0	252	1,253	20,241
1980	797	102	86	985	19,877
1981	762(1)	105	37	904	19,404
1982	783	95	55	933	18,001

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(1) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, 0.7 billion cubic feet in 1973, and 0.6 billion cubic feet in 1981.

(2) Less than one-half unit.

(3) Liquefied natural gas.

Source: U.S. Energy Information Administration, 1968-1977: World Natural Gas Annuals
1978-1981: U.S. Imports and Exports of Natural Gas
1982: Natural Gas Monthly

Section XIII
Table 7

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1975	Nation	1976
1. U.S.S.R.	810,000	1. U.S.S.R	800,000
2. Iran	330,000	2. Iran	329,500
3. United States	237,132	3. United States	228,200
4. Algeria	229,000	4. Algeria	126,000
5. United Arab Emirates(1)	200,000	5. Saudi Arabia	103,000
6. Netherlands	94,800	6. Netherlands	70,000
7. Canada	56,708	7. Canada	56,975
8. Saudi Arabia	55,000	8. United Kingdom	50,000
9. United Kingdom	50,000	9. Nigeria	44,300
10. Nigeria	45,500	10. Venezuela	42,000
11. Venezuela	43,000	11. Australia	32,500
12. Australia	38,000	12. Kuwait	31,800
13. Kuwait	32,000	13. Libya	26,300
14. Iraq	27,500	14. Norway	25,000
15. Libya	26,500	15. People's Republic of China	25,000
16. People's Republic of China	25,000	16. United Arab Emirates(1)	20,000
17. Norway	24,700	17. Pakistan	16,400
18. Brunei-Malaysia	22,000	18. Indonesia	15,000
19. Indonesia	15,000	19. Malaysia	15,000
20. Mexico	15,000	20. Bolivia	10,800
Total Free World	1,700,404	Total Free World	1,413,897
Total World	2,546,404	Total World	2,248,897

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(1) Prior to 1972 figures reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai and Sharjah which formed the United Arab Emirates.

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

Section XIII
Table 7a

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1977	Nation	1978
1. U.S.S.R.	918,000	1. U.S.S.R	920,000
2. Iran	330,000	2. Iran	500,000
3. United States	216,026	3. United States	208,878
4. Algeria	125,800	4. Algeria	125,000
5. Saudi Arabia	86,000	5. Saudi Arabia	85,000
6. Netherlands	61,900	6. Netherlands	60,000
7. Canada	58,282	7. Canada	58,000
8. Nigeria	44,000	8. Nigeria	43,000
9. Venezuela	40,700	9. Venezuela	41,000
10. Australia	32,300	10. Qatar	40,000
11. Kuwait	31,700	11. Australia	32,000
12. United Kingdom	30,000	12. Kuwait	31,500
13. Qatar	27,500	13. Mexico	30,000
14. Iraq	27,000	14. United Kingdom	29,000
15. Libya	25,800	15. Iraq	28,000
16. People's Republic of China	25,000	16. Libya	25,700
17. Indonesia	24,000	17. People's Republic of China	25,000
18. Norway	18,500	18. Indonesia	24,000
19. Pakistan	15,820	19. United Arab Emirates	20,000
20. Malaysia	15,000	20. Norway	20,000
Total Free World	1,161,905	Total Free World	1,563,437
Total World	2,114,905	Total World	2,518,437

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

Section XIII
Table 7b

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1979	Nation	1980
1. U.S.S.R.	910,000	1. U.S.S.R.	900,000
2. Iran	500,000	2. Iran	490,000
3. United States	200,302	3. United States	194,917
4. Algeria	105,000	4. Algeria	132,000
5. Saudi Arabia	93,900	5. Saudi Arabia	93,230
6. Netherlands	62,000	6. Canada	85,500
7. Canada	59,000	7. Qatar	60,000
8. Nigeria	42,000	8. Netherlands	59,500
9. Venezuela	41,000	9. Mexico	59,000
10. Qatar	40,000	10. Venezuela	42,800
11. Mexico	32,000	11. Nigeria	41,400
12. Kuwait	31,300	12. Kuwait	31,000
13. Australia	31,000	13. Australia	31,000
14. Iraq	27,800	14. Iraq	27,500
15. United Kingdom	27,000	15. United Kingdom	25,000
16. People's Republic of China	25,000	16. People's Republic of China	25,000
17. Libya	24,200	17. Libya	24,000
18. Indonesia	24,000	18. Indonesia	24,000
19. Norway	24,000	19. Norway	23,500
20. United Arab Emirates	21,600	20. United Arab Emirates	20,500
Total Free World	1,552,312	Total Free World	1,639,158
Total World	2,497,312	Total World	2,574,158

Source: United States, American Gas Association
Rest of World, Oil and Gas Journal

Section XIII
Table 7c

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1981	Nation	1982	Nation	1983
1. U.S.S.R.	920,000	1. U.S.S.R.	1,160,000	1. U.S.S.R.	1,240,000
2. Iran	485,000	2. Iran	484,000	2. Iran	482,600
3. United States	199,021	3. United States	201,730	3. United States	201,512
4. Algeria	131,500	4. Algeria	130,900	4. Saudi Arabia	117,000
5. Saudi Arabia	110,000	5. Saudi Arabia	114,000	5. Algeria	111,250
6. Canada	87,300	6. Canada	89,900	6. Canada	97,000
7. Mexico	64,500	7. Mexico	75,350	7. Mexico	75,850
8. Netherlands	62,000	8. Qatar	60,000	8. Qatar	62,000
9. Qatar	60,000	9. Netherlands	55,700	9. Norway	58,000
10. Norway	42,700	10. Norway	49,370	10. Venezuela	54,079
11. Venezuela	42,000	11. Venezuela	47,000	11. Netherlands	51,920
12. Nigeria	41,000	12. Nigeria	40,500	12. Malaysia	34,000
13. Kuwait	30,800	13. Kuwait	30,500	13. Nigeria	32,400
14. Australia	30,000	14. Indonesia	27,400	14. Kuwait	29,900
15. Iraq	27,450	15. Iraq	27,300	15. Indonesia	29,600
16. United Kingdom	24,800	16. United Kingdom	26,000	16. Iraq	28,800
17. People's Republic of China	24,500	17. People's Republic of China	24,400	17. United Kingdon	25,400
18. Libya	23,800	18. Argentina	23,400	18. Argentina	25,200
19. Indonesia	23,500	19. Libya	23,200	19. Libya	21,500
20. Argentina	22,000	20. Abu Dhabi	19,500	20. Abu Dhabi	19,260
Total Free World	1,692,622	Total Free World	1,720,376	Total Free World	1,747,239
Total World	2,646,522	Total World	2,915,076	Total World	3,031,039

Source: 1981-1983: United States, Department of Energy
Rest of World, Oil and Gas Journal

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1974(1)(2)	Nation	1975(1)(2)	Nation	1976(1)(2)
1. United States	21,600.5	1. United States	20,108.7	1. United States	19,952.4
2. U.S.S.R.	9,201.3	2. U.S.S.R.	10,205.9	2. U.S.S.R.	11,331.3
3. Canada	3,045.5	3. Netherlands	3,208.4	3. Netherlands	3,542.7
4. Netherlands	2,956.7	4. Canada	3,075.7	4. Canada	3,157.2
5. United Kingdom	1,230.0	5. People's Republic of China	1,400.0	5. Iran	1,699.6
6. People's Republic of China	1,200.0	6. United Kingdom	1,208.2	6. People's Republic of China	1,433.7
7. Romania	1,011.5	7. Romania	953.5	7. United Kingdom	1,202.3
8. Iran	787.4	8. Iran	771.1	8. Romania	854.6
9. West Germany	713.2	9. West Germany	639.4	9. Mexico	790.8
10. Mexico	560.9	10. Mexico	583.9	10. Nigeria	632.6
11. Italy	540.4	11. Italy	514.3	11. Italy	562.1
12. Venezuela	476.0	12. Venezuela	450.3	12. West Germany	544.0
13. Libya	345.2	13. Libya	382.6	13. Libya	439.2
14. East Germany	273.1	14. East Germany	280.0	14. Venezuela	396.0
15. France	269.4	15. Argentina	271.6	15. Argentina	280.2
16. Argentina	255.7	16. France	259.8	16. Algeria	256.9
17. Saudi Arabia	219.0	17. Poland	210.6	17. France	250.7
18. Poland	202.7	18. Algeria	210.0	18. Indonesia	248.6
19. Algeria	198.5	19. Saudi Arabia	200.0	19. Australia	209.3
20. Kuwait	186.9	20. Brunei	186.5	20. Chile	175.8
Total Free World	35,054.2	Total Free World	33,931.1	Total Free World	36,006.5
Total World	47,171.5	Total World	47,207.3	Total World	50,367.1

(1) Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: 1974-1975: U.S. Bureau of Mines, World Natural Gas, May 27, 1977
1976: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 8a

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1977(1)(2)	Nation	1978(1)(2)	Nation	1979(1)(2)
1. United States	20,337.5	1. United States	19,974.0	1. United States	20,471.3
2. U.S.S.R.	12,395.2	2. U.S.S.R.	13,131.6	2. U.S.S.R.	14,367.1
3. Canada	3,301.4	3. Canada	3,133.1	3. Canada	3,646.5
4. Netherlands	2,932.5	4. People's Republic of China	2,352.2	4. People's Republic of China	2,832.7
5. People's Republic of China	1,787.0	5. Iran	1,746.9	5. Netherlands	2,717.8
6. Iran	1,756.1	6. Netherlands	1,624.5	6. United Kingdom	1,965.7
7. United Kingdom	1,499.9	7. United Kingdom	1,262.4	7. Romania	1,210.5
8. Romania	1,005.5	8. Romania	1,211.6	8. Mexico	974.9
9. West Germany	907.7	9. Mexico	887.5	9. Iran	913.3
10. Mexico	745.3	10. West Germany	643.2	10. West Germany	826.3
11. Nigeria	717.4	11. Nigeria	586.6	11. Indonesia	816.3
12. Libya	488.6	12. Indonesia	565.8	12. Italy	533.6
13. Italy	448.6	13. Italy	540.8	13. Norway	414.9
14. Venezuela	392.8	14. Venezuela	401.4	14. Venezuela	406.0
15. Indonesia	351.9	15. Libya	364.0	15. Nigeria	365.6
16. Algeria	284.5	16. Norway	351.8	16. Chile	306.4
17. France	256.8	17. Algeria	328.7	17. Brunei-Malaysia	302.7
18. Argentina	250.0	18. Brunei-Malaysia	325.7	18. Algeria	301.5
19. Australia	236.7	19. Chile	320.7	19. Australia	254.1
20. Chile	208.9	20. Argentina	254.3	20. Argentina	241.7
Total Free World	35,393.2	Total Free World	35,272.8	Total Free World	38,075.1
Total World	53,883.7	Total World	53,911.1	Total World	57,666.5

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 8b

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1980(1)(2)	Nation	1981(1)(2)	Nation	1982(1)(2)
1. United States	20,378.8	1. United States	20,177.7	1. United States	18,519.7
2. U.S.S.R.	15,355.5	2. U.S.S.R.	16,390.0	2. U.S.S.R.	17,685.3
3. People's Republic of China	3,469.0	3. Netherlands	3,054.0	3. Canada	2,546.1
4. Netherlands	2,799.6	4. Canada	2,623.0	4. Netherlands	2,521.7
5. Canada	2,668.3	5. Mexico	1,486.0	5. Mexico	1,549.7
6. United Kingdom	1,500.0	6. Romania	1,440.0	6. United Kingdom	1,276.1
7. Mexico	1,190.5	7. United Kingdom	1,427.0	7. Romania	1,150.0
8. Romania	1,176.4	8. Algeria	1,149.0	8. Norway	861.9
9. Indonesia	1,028.4	9. Indonesia	1,075.0	9. Algeria	828.5
10. West Germany	738.6	10. Norway	923.0	10. Saudi Arabia	591.8
11. Norway	705.2	11. Libya	674.0	11. West Germany	585.3
12. Pakistan	600.0	12. West Germany	636.0	12. Indonesia	568.9
13. Italy	524.6	13. Venezuela	602.0	13. Venezuela	527.2
14. Venezuela	518.0	14. Pakistan	600.0	14. Italy	503.6
15. Algeria	517.0	15. Italy	500.0	15. Australia	415.8
16. Saudi Arabia	310.2	16. People's Republic of China	459.0	16. Argentina	386.2
17. Argentina	296.9	17. Saudi Arabia	435.0	17. Iran	381.5
18. Iran	292.0	18. Australia	377.0	18. China	363.7
19. Kuwait	291.3	19. Kuwait	340.0	19. France	332.6
20. Brunei	282.0	20. Argentina	330.0	20. Pakistan	315.3
Total Free World	37,677.7	Total Free World	39,187.7	Total Free World	35,424.6
Total World	58,747.7	Total World	58,397.7	Total World	55,682.6

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(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.
(2) United States is reported marketed production; all others may include some gross production

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

WORLD NATURAL GAS PRODUCTION - TWENTY LEADING NATIONS
(Billion cubic feet)

	Nation	1983 (1)(2)
1.	U.S.S.R.	18,903.0
2.	United States	16,599.0
3.	Netherlands	2,678.9
4.	Canada	2,414.1
5.	Mexico	1,479.5
6.	United Kingdom	1,395.3
7.	Romania	1,200.0
8.	Norway	861.4
9.	Algeria	707.0
10.	West Germany	605.2
11.	Venezuela	559.2
12.	Argentina	549.6
13.	Iran	500.2
14.	Indonesia	481.8
15.	Italy	450.1
16.	Australia	423.5
17.	Saudi Arabia	381.5
18.	China	371.0
19.	Pakistan	341.4
20.	Brunei	316.3
	Total Free World	33,701.5
	Total World	55,084.5

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(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	-	-	-	2	1	4	41	87	282	42	190	323
Alaska	-	-	-	-	-	-	-	-	-	--	--	50
Arizona	-	-	-	-	-	-	-	-	15	21	--	--
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464
Florida	8	27	39	8	10	15	34	35	36	35	34	35
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587
Maryland	-	-	-	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143
Missouri	38	27	24	21	14	16	15	16	15	12	12	-
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989
Nebraska	-	-	-	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,590	3,637	4,098	2,869	2,808
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869
South Dakota	6	2	1	-	7	6	5	7	-	-	-	-
Tennessee	80	127	83	132	132	107	89	89	39	45	38	54
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5,156,215	5,178,073
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682
Total	4,582,173	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,396,916	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	172	57	56	128	177	165	203	252	248	230	180	627
Alaska	133	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576
Arizona	-	-	-	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101
Arkansas	40,674	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351
California	485,655	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689	649,117
Colorado	99,899	107,404	108,142	101.826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804
Florida	34	30	29	29	35	40	107	212	123	108	50	—
Illinois	13,739	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850
Indiana	484	342	382	284	286	199	239	215	198	234	171	153
Kansas	604,410	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955
Kentucky	73,504	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892
Louisiana	2,670,271	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276
Maryland	4,373	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978	813
Michigan	18,916	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851
Mississippi	162,095	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031
Missouri	-	75	90	92	100	107	84	-	121	14	126	87
Montana	30,743	33.418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705
Nebraska	13,128	15,258	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991
New Mexico	739,660	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980
New York	2,915	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358
North Dakota	17,915	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889
Ohio	34,664	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113
Oklahoma	811,508	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943
Pennsylvania	99,366	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	52	63	71	75	90	77	85	-	58	48	57	64
Texas	5,718,993	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716
Utah	38,921	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781
Virginia	2,280	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805
West Virginia	204,633	208,757	210.556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452
Wyoming	156,978	181,610	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517	338,520
Total	12,046,115	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240	21,920,642

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	355	3,644	11,271	27,865	37,814	41,427	57,227	85,599	85,815	105,527	119,334	75,003
Alaska	121,618	125,596	131,007	128,935	160,270	166,072	187,889	203,088	220,754	230,588	242,564	264,364
Arizona	868	442	125	224	208	262	240	286	247	214	187	99
Arkansas	172,154	166,522	157,529	123,975	116,237	109,533	104,096	106,792	109,452	111,808	92,986	124,611
California	612,629	487,278	449,369	365,354	318,308	354,334	311,462	311,084	248,206	309,783	380,730	383,977
Colorado	108,537	116,949	137,725	144,629	171,629	183,972	188,792	183,693	191,239	190,814	199,146	209,892
Florida	903	15,521	33,857	38,137	44,383	43,165	48,171	51,595	50,190	45,744	35,938	22,515
Illinois	498	1,194	1,638	1,436	1,440	1,556	1,003	1,159	1,585	1,574	1,295	1,162
Indiana	537	355	276	176	346	192	183	163	350	463	330	233
Kansas	885,144	889,268	893,118	886,782	843,625	829,170	781,289	854,484	797,762	735,035	640,114	429,597
Kentucky	72,723	63,648	62,396	71,876	60,511	66,137	60,902	70,044	59,520	57,180	61,312	51,924
Louisiana	8,081,907	7,972,678	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217	6,939,924	6,780,184	6,171,627
Maryland	214	244	298	133	93	75	82	88	28	68	56	36
Michigan	25,662	34,221	44,579	69,133	102,113	119,262	129,954	148,047	159,731	158,302	152,593	153,051
Mississippi	118,805	103,989	99,706	78,787	74,345	70,762	82,995	106,579	144,077	185,469	211,371	167,231
Missouri	22	9	33	33	30	29	20	-	-	-	-	-
Montana	32,720	33,474	56,175	54,873	40,734	42,563	46,819	46,522	53,888	51,867	56,565	56,517
Nebraska	3,496	3,478	3,836	2,538	2,565	2,511	2,789	2,882	3,208	2,550	2,519	2,280
New Mexico	1,167,577	1,216,061	1,218,749	1,244,779	1,217,430	1,,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,113	991,178
New York	2,202	3,679	4,539	4,990	7,628	9,235	10,682	13,900	15,500	15,643	16,074	15,877
North Dakota	33,864	32,472	27,703	31,206	24,786	31,470	29,173	30,499	18,468	42,346	42,573	53,818
Ohio	79,903	89,995	93,610	92,055	84,960	88,891	99,327	114,098	123,481	138,856	141,134	138,391
Oklahoma	1,684,260	1,806,887	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412
Oregon	-	-	-	-	-	-	-	-	2	5	5	3
Pennsylvania	76,451	73,958	78,514	82,637	84,676	89,386	91,717	97,763	96,313	97,439	122,454	121,111
South Dakota	-	-	-	-	-	-	-	-	914	1,193	1,155	2,311
Tennessee	89	25	20	17	27	47	263	468	941	1,241	1,719	2,976
Texas	8,550,705	8,657,840	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623	7,251,879	7,050,207	6,468,817
Utah	42,418	39,474	42,715	50,522	55,354	57,416	60,696	58,416	58,605	87,766	91,191	94,255
Virginia	2,619	2,787	5,101	7,096	6,723	6,937	8,220	8,492	8,544	7,812	8,903	6,880
West Virginia	234,027	214,951	208,676	202,306	154,484	153,322	152,767	148,564	150,505	156,551	161,251	150,850
Wyoming	380,105	375,059	357,731	326,657	316,123	328,768	330,180	357,267	414,416	409,541	410,499	424,657
Total	22,493,012	22,531,698	22,647,549	21,600,522	20,108,661	19,952,438	20,025,463	19,974,033	20,471,260	20,378,787	20,177,701	18,519,675

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Table 10

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	50,713	61,113	71,072	92,466	111,030	125,874	136,825	139,551	151,325	160,261	165,772	172,406
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	27,768	34,983	44,489	53,419	62,046	63,111	71,210	75,568	88,983	105,860	105,536	105,034
Arkansas	102,779	112,675	113,922	135,609	155,524	165,603	176,489	192,378	197,374	196,297	201,306	202,361
California	548,382	617,615	619,323	683,924	787,848	792,520	862,243	933,934	1,020,395	1,021,002	1,091,236	1,078,855
Colorado	49,027	60,585	73,664	88,692	102,769	101,835	115,922	126,048	143,018	145,640	176,936	165,099
Connecticut	-	-	-	-	-	1,039	5,833	11,415	14,187	18,109	20,328	27,884
Delaware	-	-	708	1,022	1,679	2,276	1,972	2,980	4,280	5,824	6,014	8,301
Dist. of Col.	8,474	9,361	9,305	10,694	11,904	12,782	13,134	14,261	15,042	15,833	15,701	17,594
Florida	7,891	8,973	10,185	12,348	13,044	16,001	19,577	23,159	26,402	35,322	38,871	44,174
Georgia	41,368	47,552	58,824	67,894	94,596	108,329	122,742	132,069	133,044	148,567	154,778	164,114
Idaho	-	-	-	-	-	-	-	-	-	765	10,733	15,903
Illinois	132,153	168,796	202,546	235,211	250,812	344,705	350,980	391,408	398,718	417,443	422,840	452,006
Indiana	42,528	50,774	55,263	58,620	69,177	96,124	103,444	116,308	126,897	140,135	145,179	154,583
Iowa	40,948	50,350	57,620	66,233	79,640	94,951	106,755	119,876	138,661	147,892	154,964	159,982
Kansas	191,952	199,893	206,593	242,603	278,892	279,632	283,604	293,784	309,028	324,335	343,833	362,280
Kentucky	36,938	41,357	45,504	61,323	74,386	87,006	104,781	110,039	117,496	126,580	132,436	136,990
Louisiana	375,206	426,837	450,712	475,500	549,305	599,312	594,656	636,704	774,320	839,393	840,331	931,203
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maryland	3,402	4,280	4,821	13,813	22,286	26,468	29,470	35,010	39,889	47,553	51,177	57,328
Massachusetts	-	-	-	-	1,783	11,386	17,683	35,486	43,932	50,691	56,626	67,602
Michigan	80,571	75,978	84,315	127,180	154,283	163,991	178,307	188,922	207,005	243,465	272,353	298,104
Minnesota	43,198	52,376	59,040	67,861	84,205	97,591	104,508	115,140	123,734	136,831	147,732	149,042
Mississippi	52,461	65,245	60,987	76,918	97,786	119,638	118,617	136,797	138,186	145,353	148,279	157,169
Missouri	78,101	90,883	99,667	140,384	156,922	168,992	173,674	188,349	199,272	219,424	223,528	241,239
Montana	30,919	32,919	34,361	38,544	37,481	40,771	39,934	40,624	47,491	47,690	52,200	51,825
Nebraska	39,699	47,647	51,911	61,742	72,386	78,544	83,384	93,189	102,177	109,265	116,326	114,661
Nevada	-	-	-	-	-	-	-	982	2,484	6,676	8,666	8,826
New Hampshire	-	-	-	-	3	316	857	1,065	1,206	1,445	1,787	2,421
New Jersey	-	-	3,172	3,209	30,887	40,409	58,685	65,718	74,601	90,092	100,483	119,946
New Mexico	102,766	110,132	127,423	147,509	174,808	194,748	200,039	177,221	215,281	229,821	243,800	251,518
New York	41,572	44,200	51,064	65,157	144,920	180,747	197,878	225,844	243,513	268,408	299,153	343,326
North Carolina	-	-	-	-	1,631	2,945	6,172	9,436	12,644	16,579	19,533	23,519
North Dakota	2,608	2,712	2,686	3,279	3,408	3,342	3,559	4,820	9,320	10,428	13,753	15,639
Ohio	221,571	236,137	246,212	324,594	375,820	393,250	420,809	442,523	500,865	561,557	583,753	618,022
Oklahoma	254,522	277,955	258,579	286,793	307,887	319,908	333,972	327,936	334,057	358,930	387,277	342,080
Oregon	-	-	-	-	-	-	-	-	-	4,473	18,227	22,752
Pennsylvania	175,906	191,631	209,749	263,199	311,937	324,187	335,457	353,185	390,280	431,325	445,813	465,732
Rhode Island	-	-	-	-	-	-	670	4,423	5,375	6,242	8,139	9,940
South Carolina	-	-	-	-	853	2,896	8,772	16,573	23,043	44,467	39,741	39,678
South Dakota	8,016	8,540	8,212	10,001	11,447	11,701	13,688	15,564	16,107	18,002	18,251	19,535
Tennessee	33,986	37,766	41,609	67,813	88,078	99,817	106,130	114,869	118,052	126,815	130,601	142,860
Texas	1,444,422	1,605,955	1,658,379	1,824,553	2,130,377	2,175,100	2,194,172	2,198,175	2,236,540	2,323,847	2,455,528	2,555,541
Utah	20,919	21,627	24,338	26,368	29,014	30,929	34,592	41,073	48,903	54,669	57,004	55,706
Vermont	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Virginia	3,055	3,877	4,324	7,639	14,853	18,630	27,716	35,604	38,884	43,362	48,527	56,052
Washington	-	-	-	-	-	-	-	-	-	5,224	40,108	53,063
West Virginia	106,105	112,702	111,802	132,273	139,608	146,153	148,017	138,846	158,006	161,246	159,520	164,347
Wisconsin	267	323	1,696	15,380	28,382	33,632	36,339	39,287	40,621	48,188	59,592	67,596
Wyoming	26,351	31,400	31,407	36,637	38,865	36,287	36,070	36,709	39,705	45,552	45,504	46,810
U.S. Total	4,426,544	4,945,149	5,195,484	6,026,404	7,102,562	7,613,478	7,979,338	8,402,852	9,070,343	9,706,878	10,279,775	10,760,648

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(1) Included with New Hampshire.

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	178,595	184,118	184,909	194,369	205,763	222,047	229,152	233,098	254,176	287,212	301,128	298,722
Alaska	133	229	557	2,137	4,214	5,781	6,922	10,784	11,889	17,548	42,914	63,990
Arizona	112,722	135,494	153,674	157,892	157,494	162,570	154,489	162,320	158,766	176,547	195,476	192,996
Arkansas	218,528	216,516	209,420	224,744	251,129	273,671	281,825	295,078	298,959	325,236	353,465	385,186
California	1,180,331	1,311,253	1,405,882	1,476,322	1,554,126	1,737,341	1,757,292	1,884,878	1,945,935	2,078,719	2,078,868	2,156,367
Colorado	196,057	207,464	212,611	204,940	207,663	236,325	236,745	233,896	235,634	261,366	276,495	285,733
Connecticut	25,875	28,453	30,361	32,227	34,809	37,502	40,822	47,695	49,780	53,202	57,485	60,574
Delaware	9,459	9,035	9,380	14,492	16,378	17,091	17,969	19,045 (2)	21,063 (2)	24,059 (2)	25,863 (2)	26,421 (2)
Dist. of Col.	17,123	18,142	18,518	19,338	19,359	20,633	21,210					
Florida	91,490	137,875	143,656	157,735	177,496	185,249	188,389	212,278	225,531	275,534	313,608	338,645
Georgia	180,342	182,087	179,957	192,638	187,600	206,691	211,321	233,291	254,334	283,115	311,543	332,526
Idaho	19,641	22,006	23,969	25,806	26,635	30,825	33,889	36,104	34,283	39,479	41,436	46,570
Illinois	518,111	536,549	574,346	620,309	658,432	731,921	772,092	854,149	962,078	1,008,061	1,098,817	1,188,043
Indiana	171,158	212,851	239,932	272,309	297,897	333,718	357,882	399,905	434,632	454,013	530,981	545,368
Iowa	182,827	187,138	204,663	213,552	219,005	243,634	247,513	239,478	272,850	297,498	318,341	348,662
Kansas	380,241	372,302	364,957	380,055	387,880	433,429	464,337	507,704	481,443	525,592	583,040	614,537
Kentucky	147,993	159,710	161,912	168,138	175,928	185,780	182,828	160,392	203,964	205,380	243,461	254,622
Louisiana	893,369	947,938	1,036,887	1,007,041	1,070,471	1,139,186	1,155,260	1,258,776	1,509,553	1,661,782	1,942,072	2,034,049
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maryland	60,674	64,923	68,390	76,551	81,774	86,813	93,957	117,208	139,853	149,125	168,944	182,135
Massachusetts	72,994	77,886	81,768	89,015	98,447	106,699	114,227	116,198	128,217	132,325	136,988	147,307
Michigan	332,756	368,531	407,732	443,677	463,667	500,628	558,240	619,863	689,446	703,782	779,278	811,454
Minnesota	161,390	179,827	192,584	214,130	219,047	236,976	248,741	264,488	283,086	311,898	325,687	342,322
Mississippi	183,158	188,864	190,930	199,733	227,184	252,023	249,845	286,390	283,287	312,862	327,499	361,652
Missouri	255,095	261,372	274,487	289,482	303,075	325,194	341,144	351,768	360,703	365,546	398,697	429,526
Montana	52,183	54,569	57,781	63,298	67,337	67,652	70,895	73,829	65,782	63,642	78,988	90,823
Nebraska	132,651	139,028	143,169	146,043	149,014	164,224	168,032	198,592	189,831	204,139	210,631	222,890
Nevada	10,450	12,447	15,864	17,528	19,292	23,928	27,679	34,218	35,035	37,029	44,140	52,528
New Hampshire	2,480	2,852	3,018	3,315	3,596	3,813	4,084	5,567	6,578	6,630	9,196	10,691
New Jersey	132,984	139,258	153,806	174,210	188,249	200,109	209,757	227,271	251,482	268,495	304,835	322,853
New Mexico	272,922	266,409	288,455	292,495	275,969	257,173	263,798	261,918	301,739	309,409	302,389	322,750
New York	379,928	419,460	435,417	474,384	506,942	513,828	544,414	631,808	589,120	639,845	683,688	710,885
North Carolina	32,685	45,442	50,523	56,373	62,296	68,533	75,745	86,753	97,981	114,809	136,651	151,227
North Dakota	16,981	17,274	19,625	22,196	23,765	26,232	30,318	40,836	37,008	38,481	37,389	37,207
Ohio	670,618	698,569	719,674	756,398	797,318	824,111	879,639	944,767	962,821	987,841	1,031,963	1,052,933
Oklahoma	379,178	383,042	378,096	485,726	588,245	598,631	524,404	490,032	500,330	552,189	603,461	656,095
Oregon	27,498	30,861	33,827	37,865	43,350	53,984	56,065	65,093	69,877	79,226	87,854	95,284
Pennsylvania	502,066	520,788	529,716	550,080	585,426	607,277	629,485	677,111	678,599	718,025	766,034	772,467
Rhode Island	11,011	11,839	12,780	13,794	14,725	15,465	16,349	16,684	18,493	20,704	22,555	25,093
South Carolina	54,363	58,532	60,928	70,645	75,099	78,716	86,865	96,437	100,539	127,514	140,826	159,830
South Dakota	23,584	24,533	25,820	27,413	25,159	27,639	26,974	28,256	27,735	28,815	33,826	36,319
Tennessee	149,462	155,623	160,667	167,737	169,418	181,476	201,499	226,025	232,212	234,288	247,857	256,148
Texas	2,865,595	2,981,167	3,030,914	3,209,968	3,313,837	3,377,093	3,482,821	3,709,715	3,918,930	4,153,513	4,324,701	4,559,373
Utah	61,401	75,650	81,879	92,890	103,628	119,625	114,601	106,474	107,685	113,132	123,291	123,430
Vermont	(1)	(1)	(1)	(1)	(1)	-	-	(1)	(1)	(1)	(1)	(1)
Virginia	59,842	66,181	70,579	77,254	83,011	89,072	95,700	121,702	115,887	121,928	128,748	136,523
Washington	58,650	64,934	70,343	81,431	86,834	105,789	108,108	116,879	127,230	139,421	144,521	149,992
West Virginia	191,548	179,969	192,221	188,602	190,264	182,515	179,084	183,109	165,228	189,027	178,280	192,340
Wisconsin	82,377	90,620	113,679	136,516	152,354	170,202	200,484	224,675	248,033	271,765	316,279	337,822
Wyoming	59,119	59,635	61,451	67,336	69,879	67,559	70,298	79,174	85,277	90,191	112,611	122,859
U.S. Total	**11,819,638**	**12,509,427**	**13,081,714**	**13,890,129**	**14,640,480**	**15,536,373**	**16,033,189**	**17,191,711**	**18,172,894**	**19,459,939**	**20,922,800**	**22,045,799**

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(1) Included with New Hampshire.
(2) Included with Maryland.

Source: U.S. Bureau of Mines, Natural Gas Annuals
U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10b

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	286,254	278,710	272,267	275,262	264,782	226,640	241,237	237,258	283,435	269,240
Alaska	67,805	75,407	64,059	63,971	85,995	91,350	116,278	145,025	157,236	153,345
Arizona	213,313	227,909	214,323	192,446	156,222	171,275	167,092	175,041	172,738	165,850
Arkansas	336,207	317,572	328,921	291,345	259,119	249,764	229,558	220,699	250,747	273,720
California	2,176,849	2,209,699	2,063,125	1,851,614	1,848,070	1,770,736	1,772,041	1,563,172	1,810,381	1,807,731
Colorado	293,521	313,817	328,681	319,266	317,392	314,228	282,215	267,838	292,272	256,363
Connecticut	61,434	64,008	62,609	66,343	64,011	65,855	64,068	65,191	67,957	72,583
Delaware	26,452	24,088	22,949	20,365	18,603	19,182	15,787	20,626	24,981	29,797
Dist. of Col.	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	27,868
Florida	336,901	301,121	314,384	292,920	289,265	302,882	302,344	318,344	344,177	316,588
Georgia	342,579	331,143	348,089	330,339	326,559	261,320	264,665	278,272	312,299	315,201
Idaho	50,096	56,630	56,045	53,057	60,451	47,156	45,537	44,210	54,237	49,047
Illinois	1,242,797	1,220,635	1,163,800	1,163,215	1,107,900	1,187,712	1,167,099	1,174,934	1,142,732	1,089,720
Indiana	566,996	576,948	542,300	531,872	477,341	425,221	398,268	440,955	504,185	489,254
Iowa	344,639	344,516	364,640	367,595	345,798	311,425	280,246	238,229	291,521	269,581
Kansas	646,730	668,847	648,369	630,429	541,490	556,172	506,910	519,346	584,236	488,338
Kentucky	250,493	261,271	250,913	233,560	212,993	251,198	219,521	212,913	218,689	202,284
Louisiana	2,078,996	2,137,729	2,216,692	2,202,693	1,978,129	2,216,289	2,190,848	2,249,172	1,978,382	1,794,007
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2,268
Maryland	188,371	204,922	201,961	199,331	165,932	176,272	158,838	161,695	201,584	160,244
Massachusetts	156,451	160,280	155,547	155,268	153,967	156,247	160,343	160,503	156,459	182,587
Michigan	852,575	866,682	921,932	937,964	887,063	894,700	741,295	789,594	875,726	865,137
Minnesota	351,442	351,408	360,811	351,644	331,186	320,156	293,381	313,229	334,202	285,846
Mississippi	379,538	379,044	314,870	276,878	230,620	199,642	197,689	203,719	254,366	263,530
Missouri	429,105	425,215	426,807	409,884	369,620	380,258	366,970	358,905	347,257	318,451
Montana	89,021	85,161	91,148	80,766	80,351	75,132	70,956	72,649	69,805	60,724
Nebraska	224,273	225,101	230,106	223,267	219,147	198,893	188,804	163,051	170,013	163,079
Nevada	66,511	69,522	73,072	63,438	61,251	66,797	71,052	64,506	84,433	58,454
New Hampshire	12,088	13,267	13,881	14,697	13,534	13,545	13,609	14,039	14,881	9,474
New Jersey	326,768	321,288	301,566	275,050	244,102	321,535	247,120	228,843	260,579	339,825
New Mexico	323,178	342,150	312,593	312,422	296,369	340,754	229,813	213,698	211,182	221,793
New York	716,550	692,730	682,547	627,493	576,883	595,933	561,698	569,702	623,891	737,443
North Carolina	160,567	163,897	160,871	140,217	114,822	101,175	72,527	81,989	130,884	153,316
North Dakota	37,169	39,672	35,397	38,030	39,230	43,598	37,650	39,067	29,236	22,848
Ohio	1,087,126	1,147,804	1,104,156	1,086,651	956,876	1,005,927	847,497	929,593	898,029	896,983
Oklahoma	667,496	686,133	673,385	722,870	728,827	812,197	766,986	770,249	824,980	722,318
Oregon	100,897	110,360	107,961	98,051	109,898	92,500	72,521	86,140	93,707	78,703
Pennsylvania	802,168	829,031	783,368	715,623	653,810	713,579	668,337	673,770	740,818	775,715
Rhode Island	25,662	22,494	20,559	23,781	23,129	20,697	25,631	23,042	27,219	27,630
South Carolina	156,263	144,120	153,147	131,991	122,949	148,989	138,585	117,573	119,319	142,228
South Dakota	31,832	34,077	31,221	32,076	32,534	39,207	36,097	35,423	25,724	24,078
Tennessee	265,011	277,275	293,620	260,171	217,328	212,326	202,135	184,048	226,477	229,661
Texas	4,813,016	4,882,741	5,087,521	4,912,481	4,379,948	4,403,942	4,143,023	4,211,432	4,001,355	4,091,099
Utah	125,225	127,475	126,595	124,973	127,819	150,237	106,315	118,513	126,047	115,092
Vermont	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	3,991
Virginia	144,014	155,658	152,848	143,650	121,320	123,509	118,020	134,144	134,088	158,479
Washington	156,663	170,448	197,861	182,723	164,334	148,781	142,657	127,280	158,515	128,770
West Virginia	189,319	208,552	195,744	191,975	167,693	159,007	144,535	151,839	148,538	143,047
Wisconsin	348,132	320,826	367,961	381,148	364,801	315,154	349,160	370,726	367,517	351,857
Wyoming	128,088	142,062	124,692	109,818	100,412	101,488	83,623	87,292	93,797	68,975
U.S. Total	22,676,581	23,009,445	22,965,914	22,110,623	20,409,875	20,800,582	19,520,581	19,627,478	20,240,761	19,877,293(3)

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(1) Included with New Hampshire.
(2) Included with Maryland.
(3) Total includes 3,131 MMcf from Hawaii in 1980.
(4) Total may not add due to independent rounding.

Source: U.S. Energy Information Administration, Natural Gas Annuals

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1981 (4)	1982
Alabama	271,280	240,957
Alaska	121,727	237,881
Arizona	182,533	135,031
Arkansas	264,787	226,941
California	1,858,178	1,682,718
Colorado	211,780	224,991
Connecticut	76,829	78,246
Delaware	30,643	27,833
Dist. of Col.	29,023	29,280
Florida	337,557	324,807
Georgia	316,613	294,651
Idaho	44,960	39,971
Illinois	1,061,957	994,179
Indiana	496,349	467,842
Iowa	253,231	237,089
Kansas	428,130	400,920
Kentucky	199,445	188,536
Louisiana	1,781,716	1,556,052
Maine	2,326	2,691
Maryland	175,289	157,990
Massachusetts	184,575	195,107
Michigan	800,873	748,141
Minnesota	266,282	262,039
Mississippi	242,987	269,131
Missouri	283,514	279,449
Montana	52,452	52,208
Nebraska	138,322	138,238
Nevada	73,182	46,627
New Hampshire	10,220	10,078
New Jersey	390,121	375,660
New Mexico	196,212	204,163
New York	760,463	775,268
North Carolina	152,496	142,129
North Dakota	34,445	28,370
Ohio	870,341	813,519
Oklahoma	670,971	676,762
Oregon	75,562	70,824
Pennsylvania	784,691	694,639
Rhode Island	29,202	27,874
South Carolina	141,924	98,100
South Dakota	22,056	25,089
Tennessee	223,529	207,161
Texas	3,926,687	3,394,404
Utah	102,239	117,706
Vermont	4,383	4,370
Virginia	151,737	150,964
Washington	124,942	108,653
West Virginia	148,527	130,029
Wisconsin	324,611	312,007
Wyoming	69,056	90,923
U.S. Total	19,403,858 (3)	18,001,055 (3)

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(1) Included with New Hampshire.
(2) Included with Maryland.
(3) Total includes 3,131 MMcf from Hawaii in 1980, 2,899 MMcf in 1981, and 2,804 MMcf in 1982.
(4) Total may not add due to independent rounding.

Source: U.S. Energy Information Administration, Natural Gas Annuals

BASIC PETROLEUM DATA BOOK

SECTION XIV. OPEC

Table 1. OPEC Crude Oil Reserves

Table 2 OPEC Crude Oil Production

Table 3. U.S. Total Petroleum Imports From OPEC Nations

Table 4. U.S. Crude Oil Imports From OPEC Nations

Section XIV
Table 1

OPEC CRUDE OIL RESERVES
ANNUALLY AS OF JANUARY 1
(Millions of Barrels)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC
1960	50,000	62,000	6,500	35,000	25,000	18,000	-	-	-	-	-	-	-	-	196,500
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	-	-	-	-	-	-	-	201,000
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	-	-	-	-	-	214,300
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	-	-	-	-	-	220,000
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000		-	-	-	-	232,950
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	-	-	-	-	-	238,500
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	-	-	-	-	-	239,650
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	-	-	-	-	278,900
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	-	-	-	-	299,450
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	-	-	-	326,225
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000	-	-	-	391,750
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000(10)	9,300	-	-	431,900
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	-	-	425,251
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,879
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19,500	1,700	2,125	440,395
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,600	29,411	8,440	17,400	1,100	500	435,591
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355
1982	164,600	64,480	6,500	57,000	29,700	20,300	3,434	22,600	9,800	32,176	8,080	16,500	850	480	436,500
1983	162,400	64,230	5,840	55,308	41,000	21,500	3,425	21,500	9,550	32,354	9,440	16,750	1,400	460	445,157
1984	166,000	63,900	5,695	51,000	43,000	24,850	3,330	21,370	9,100	32,240	9,220	16,550	1,675	490	448,320

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(1) Original member 1960.
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(3) Joined in 1961.
(4) Joined in 1962.
(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(6) Joined in 1969.
(7) Joined in 1971.
(8) Joined in 1973.
(9) Joined as an associate member in 1973 and became a full member in 1975.
(10) Government estimate

Source: Oil and Gas Journal, "Worldwide Report" issue

Section XIV
Table 2

OPEC CRUDE OIL PRODUCTION
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC
1960	1,247	1,624	136	1,054	967	2,846	-	-	-	-	-	-	-	-	7,874
1961	1,393	1,644	179	1,183	1,002	2,920	176	-	-	-	-	-	-	-	8,497
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	-	-	-	-	-	9,954
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	-	-	-	-	-	10,865
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	-	-	-	-	-	12,082
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	-	-	-	-	-	13,177
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	-	-	-	-	-	14,217
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	-	-	-	-	15,631
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	-	-	-	-	17,660
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	-	-	-	20,341
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	-	-	-	22,134
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	-	-	25,092
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	-	-	26,711
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371
1979	9,251	2,213	568	3,168	3,477	2,356	508	2,092	1,591	1,831	1,137	2,302	214	203	30,911
1980	9,631	1,389	544	1,662	2,514	2,165	471	1,830	1,576	1,702	1,020	2,058	204	175	26,941
1981	9,625	947	370	1,381	993	2,108	405	1,137	1,604	1,500	803	1,445	211	151	22,680
1982	6,327	663	317	2,282	972	1,893	328	1,183	1,314	1,248	701	1,298	211	154	18,891
1983	4,867	881	390	2,492	922	1,790	295	1,076	1,385	1,118	699	1,241	236	157	17,549

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(1) Original member 1960.
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(3) Joined in 1961.
(4) Joined in 1962.
(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(6) Joined in 1969.
(7) Joined in 1971.
(8) Joined in 1973.
(9) Joined as an associate member in 1973 and became a full member in 1975.

Source: U.S. Energy Information Administration
1979-1983: CIA, International Energy Statistical Review

U.S. TOTAL PETROLEUM IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	Total U.S. Petroleum Imports
1960	79	146	45	36	17	832	-	-	-	8	-	-	-	-	1,155	1,815
1961	69	130	53	60	25	800	36	-	-	-	-	-	-	-	1,173	1,917
1962	73	120	43	49	2	907	27	19	67	-	-	-	-	-	1,307	2,082
1963	86	89	44	62	1	899	17	19	59	-	-	-	-	-	1,276	2,123
1964	106	69	48	66	-	931	20	39	63	-	-	-	-	-	1,342	2,258
1965	144	60	27	79	16	994	13	41	61	-	-	-	-	-	1,435	2,468
1966	135	31	19	89	26	1,021	1	69	50	-	-	-	-	-	1,441	2,573
1967	86	23	11	71	5	935	-	42	62	5	-	-	-	-	1,240	2,537
1968	60	48	29	61	-	888	-	114	73	15	-	-	-	-	1,288	2,840
1969	42	39	43	46	-	876	1	135	89	14	2	-	-	-	1,287	3,166
1970	42	36	-	38	-	989	-	47	70	63	8	-	-	-	1,293	3,419
1971	127	36	-	112	11	1,019	-	57	111	80	15	103	-	-	1,671	3,925
1972	190	45	-	142	4	960	3	123	164	73	92	251	-	-	2,047	4,741
1973	486	47	-	223	4	1,135	7	164	213	71	135	459	48	-	2,992	6,256
1974	461	5	-	469	-	979	17	4	300	74	190	713	42	23	3,277	6,112
1975	715	15	-	280	3	698	18	232	388	117	282	762	57	27	3,594	6,025
1976	1,230	5	-	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,295
1977	1,380	48	-	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807
1978	1,144	6	-	555	62	645	64	654	573	385	649	919	54	41	5,751	8,363
1979	1,356	8	-	304	88	690	31	658	420	281	636	1,080	42	42	5,636	8,456
1980	1,261	25	-	9	28	481	22	554	348	172	488	857	27	26	4,298	6,909
1981	1,129	-	-	-	(10)	406	7	319	366	81	311	620	48	35	3,324	5,996
1982	552	5	-	35	3	412	7	26	248	92	170	514	42	40	2,145	5,113
1983	337	14	-	48	10	422	-	-	338	30	240	302	61	59	1,863	5,051

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(1) Original member 1960.

(2) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(3) Joined in 1961.

(4) Joined in 1962.

(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

(6) Joined in 1969.

(7) Joined in 1971.

(8) Joined in 1973.

(9) Joined as an associate member in 1973 and became a full member in 1975.

(10) Less than 500 barrels per day.

Source: U.S. Energy Information Administration. P.A.D. District Supply/Disposition Annual
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual.

Section XIV
Table 4

U.S. CRUDE OIL IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	Total U.S. Crude Oil Imports
1960	77	130	45	36	17	472	-	-	-	-	-	-	-	-	777	1,015
1961	62	121	53	60	20	427	10	-	-	-	-	-	-	-	753	1,045
1962	67	112	43	49	2	463	26	18	67	-	-	-	-	-	847	1,126
1963	79	81	44	62	1	478	16	19	59	-	-	-	-	-	839	1,131
1964	97	64	48	66	-	476	20	39	63	-	-	-	-	-	873	1,198
1965	132	55	27	78	16	432	12	41	61	-	-	-	-	-	854	1,238
1966	126	26	19	84	26	404	1	69	50	-	-	-	-	-	805	1,225
1967	81	19	11	65	5	359	-	42	62	5	-	-	-	-	649	1,128
1968	52	43	29	58	-	344	-	114	73	15	-	-	-	-	728	1,290
1969	35	34	43	42	-	306	1	134	89	14	1	-	-	-	699	1,490
1970	40	33	-	33	-	268	-	47	70	63	6	-	-	-	560	1,324
1971	115	29	-	106	11	303	-	53	110	80	13	95	-	-	915	1,681
1972	174	36	-	136	4	255	3	109	163	73	87	243	-	-	1,283	2,216
1973	462	42	-	217	4	344	7	133	200	71	119	448	47	-	2,094	3,244
1974	438	5	-	463	-	319	17	4	284	69	180	697	42	23	2,541	3,477
1975	701	4	-	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105
1976	1,222	1	-	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287
1977	1,369	42	-	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,568
1978	1,142	5	-	554	62	181	64	638	533	385	634	910	38	38	5,184	6,356
1979	1,347	5	-	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519
1980	1,250	27	-	8	28	156	22	548	314	172	456	841	17	25	3,864	5,263
1981	1,112	-	-	-	-	147	7	317	318	77	261	611	38	35	2,922	4,396
1982	530	2	-	35	3	155	7	23	226	81	90	510	32	40	1,734	3,488
1983	321	7	-	48	10	164	-	-	315	18	176	301	56	59	1,477	3,329

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(1) Original member 1960.

(2) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(3) Joined in 1961.

(4) Joined in 1962.

(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

(6) Joined in 1969.

(7) Joined in 1971.

(8) Joined in 1973.

(9) Joined as an associate member in 1973 and became a full member in 1975.

(10) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues
1981-1983: U.S. Energy Information Administration, Petroleum Supply Annual

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

Table 1. Estimated Average Number of Empployees in Important Segments of the Petroleum Industry

Table 2. Conversion Table

Section XV
Table 1

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1983

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	1,758	402	29	104	2,998	4,558	7,375	17,224
Alaska	7,535	160	-	1,143	289	523	1,205	10,855
Arizona	163	76	-	100	964	1,304	7,311	9,918
Arkansas	3,946	765	NA	NA	2,448	2,594	4,414	14,167
California	40,081	27,624	662	1,040	10,941	15,776	59,222	155,346
Colorado	26,448	600	32	107	2,397	3,022	8,456	41,062
Connecticut	177	124	77	15	1,302	2,622	9,068	13,385
Delaware	40	1,032	11	-	346	351	1,360	3,140
Florida	1,062	64	123	57	2,253	6,821	28,240	38,620
Georgia	113	109	138	510	3,602	6,013	14,818	25,303
Hawaii	NA	413	-	-	353	503	3,577	4,846
Idaho	149	-	-	NA	466	1,603	2,100	4,318
Illinois	6,116	6,729	791	1,022	8,659	10,727	23,848	57,892
Indiana	934	3,026	227	469	3,035	3,917	14,009	25,617
Iowa	30	-	56	172	1,138	2,975	11,177	15,548
Kansas	15,565	3,140	308	1,884	4,575	2,680	7,253	35,405
Kentucky	3,409	3,574	54	159	3,155	3,010	8,891	22,252
Louisiana	79,200	12,400	NA	1,300	7,000	5,800	8,400	114,100
Maine	14	-	-	NA	NA	1,216	2,519	3,749
Maryland	-	-	229	-	1,266	3,530	12,815	17,840
Massachusetts	68	79	320	8	4,796	3,521	13,691	22,483
Michigan	4,117	1,998	436	217	8,098	5,040	19,981	39,887
Minnesota	NA	NA	NA	196	2,457	2,677	14,510	19,840
Mississippi	8,100	1,660	120	151	2,170	3,530	4,670	20,401
Missouri	165	NA	377	252	5,010	6,827	14,282	26,913
Montana	3,760	1,026	-	92	117	1,529	2,406	8,930
Nebraska	223	15	154	97	3,601	1,758	6,078	11,926
Nevada	313	38	-	20	555	402	3,332	4,660
New Hampshire	1	-	3	3	315	450	2,350	3,122
New Jersey	110	8,300	1,020	165	2,054	4,034	19,205	34,888
New Mexico	12,988	971	22	301	3,771	1,774	4,029	23,856
New York	2,680	11,145	373	126	7,083	11,002	28,229	60,638
North Carolina	13	-	175	116	2,427	5,087	9,193	17,011
North Dakota	5,387	240	-	172	665	2,377	2,019	10,860
Ohio	11,283	5,794	624	673	7,715	5,996	27,289	59,374
Oklahoma	74,870	7,648	290	2,454	5,773	7,124	6,373	104,532
Oregon	82	NA	NA	NA	1,391	2,173	7,292	10,938
Pennsylvania	4,868	11,953	1,300	730	8,702	10,968	26,472	64,993
Rhode Island	28	-	NA	-	848	572	2,313	3,761
South Carolina	14	NA	NA	NA	718	3,411	6,904	11,047
South Dakota	124	3	-	62	130	1,426	2,490	4,235
Tennessee	763	218	53	45	1,744	4,558	12,084	19,565

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1983

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Texas	252,408	40,931	913	5,245	29,375	25,589	34,788	389,249
Utah	4,493	863	NA	83	2,992	1,945	4,065	14,441
Vermont	NA	-	NA	-	124	282	1,656	2,062
Virginia	200	200	NA	100	2,500	7,400	13,700	24,100
Washington	214	1,554	61	84	1,551	2,972	9,279	15,715
West Virginia	5,866	482	64	133	5,454	2,065	3,731	17,795
Wisconsin	15	NA	-	149	2,917	3,713	13,234	20,028
Wyoming	196,551	15,972	12	4,432	11,900	13,942	33,643	276,452
District of Columbia	-	123	-	-	704	285	1,087	2,199
Total U.S.	776,444	171,551	9,054	24,188	184,844	223,974	586,433	1,976,488

NA Not Available

Note: The above estimates represent results of the Independent Petroleum Association of America's survey of State Labor Departments. The totals of these individual state estimates do not agree with totals shown by the Bureau of Labor Statistics in its "Employment and Earnings" publication.

Section XV
Table 2

THE FOLLOWING EQUIVALENTS ARE DERIVED FROM THE USE OF BRITISH THERMAL UNIT HEAT VALUES(1)

		Crude Petroleum (42 gal barrel)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu ft)	Distillate Fuel Oil (42 gal barrel)	Residual Fuel Oil (42 gal barrel)	Liquefied Pet. Gas (42 gal barrel)
Crude Petroleum	42 Gal.Bbl.equals	-	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	Short Ton equals	4.379	-	0.969	24.541	4.361	4.040	6.333
Bituminous Coal and Lignite	Short Ton equals	4.517	1.031	-	25.314	4.498	4.167	6.532
Natural Gas-Dry	1000 Cu.Ft.equals	0.178	0.041	0.040	-	0.178	0.165	0.258
Distillate Fuel Oil	42 Gal.Bbl.equals	1.004	0.229	0.222	5.628	-	0.927	1.452
Residual Fuel Oil	42 Gal.Bbl.equals	1.084	0.248	0.240	6.074	1.079	-	1.567
Liquefied Petroleum Gas	42 Gal.Bbl.equals	0.692	0.158	0.153	3.875	0.689	0.638	-
(1) B.T.U. Heat Values as used by Bureau of Mines	1000s	5,800	25,400	26,200	1,035	5,825	6,287	4,011

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248: Kerosine 5,670: Lubricants 6,064.8: Wax 5,537.3: Asphalt 6,636: Miscellaneous 5,796
Natural Gasoline 4,620 per 42 gallon barrel

GALLON, BARREL, POUND AND TON EQUIVALENTS FOR CONVERTING MEASURES OF CRUDE PETROLEUM AND REFINED PETROLEUM PRODUCTS

	Gravity at 60° F(2)	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pound
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	-	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	-	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

(2) For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu.Ft. = One 42 Gallon Barrel
U.S. Gallon = .833 Imperial Gallon
Imperial Gallon = 1.2 U.S. Gallons

Source: ASTM-IP Petroleum Measurement Tables

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BASIC PETROLEUM DATA BOOK

Petroleum Industry Statistics

Volume V, Number 2
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The American Petroleum Institute, incorporated in 1919 under the laws of the District of Columbia, serves as a forum, information bureau, technical clearing house, and national trade association for the petroleum industry.

Beginning with Volume 1, Number 1, the Basic Petroleum Data Book will be updated three times a year. Each issue will be an independent newly-printed book which can be discarded when subsequent volumes are released. This format supersedes the original loose-leaf Data Book first printed in October 1975.

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Section I
Table 1

MARKET ECONOMIES OIL CONSUMPTION AND PRODUCTION,(1)
HISTORY AND PROJECTIONS, MIDPRICE SCENARIO
(Million Barrels per Day)

Supply and Disposition	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1995
Consumption												
United States(2)	17.5	16.5	15.6	15.5	16.0	16.1	16.4	16.7	16.8	16.9	16.9	17.7
Canada	1.9	1.8	1.6	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.6	1.6
Japan	5.0	4.8	4.6	4.5	4.5	4.5	4.7	4.9	5.0	5.0	5.0	5.1
OECD Europe	13.5	12.5	12.2	11.8	12.1	12.5	12.9	13.2	13.3	13.2	13.1	12.6
OPEC	2.7	3.0	2.9	3.1	3.1	3.2	3.4	3.6	3.8	4.0	4.2	5.2
Other Countries	9.0	8.9	8.9	8.8	8.9	9.1	9.4	9.7	9.8	9.9	10.0	11.1
Total Consumption	49.6	47.4	45.9	45.2	46.1	47.0	48.4	49.7	50.3	50.7	50.9	53.2
Production												
United States	10.8	10.7	10.8	10.8	10.8	10.9	10.9	10.8	10.9	11.0	10.9	10.5
Canada	1.8	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.0
OECD Europe	2.6	2.9	3.4	3.9	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.6
OPEC	27.7	23.6	19.7	18.6	19.6	20.5	21.7	22.8	23.2	23.3	23.5	24.2
Other Countries	6.3	6.9	7.6	7.9	8.4	8.8	9.2	9.5	9.9	10.3	10.7	12.7
Total Production	49.2	45.8	43.1	42.8	44.5	45.7	47.3	48.6	49.4	49.8	50.2	52.9
Net Exports from Centrally Planned Economies	1.2	1.5	1.7	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.5
Stock Withdrawals and Discrepancies	-0.8	0.2	1.1	0.6	-0.1	-0.3	-0.4	-0.3	-0.3	-0.3	-0.3	-0.1

(1) Includes crude oil, natural gas liquids, refinery gains, hydrogen, and other hydrocarbons.
(2) Includes Puerto Rico and Virgin Islands.
Note: The market economies exclude the Centrally Planned Economies of Eastern Europe (including Yugoslavia), the Soviet Union, China, Cuba, Kampuchea, North Korea, Laos, Mongolia, and Vietnam. Numbers may not add to total because of rounding.

Source: U.S. Energy Information Administration, Annual Energy Outlook

Section I
Table 2

MARKET ECONOMIES ENERGY PROJECTIONS: COMPARISON OF EIA MIDPRICE PROJECTIONS WITH OTHER PROJECTIONS FOR 1985, 1990, AND 1995

(Million Barrels per Day of Oil-Equivalent)

Projection	Consumption		Production		CPE Net
	Energy	Oil	OPEC	Other	Oil Exports
1981 Actual	95	47	24	22	1.5
1985 Projections					
EIA	98	47	21	25	1.6
Tenneco (August 1982)	100	48	NA	NA	NA
IEA, Paris (October 1982)	NA	48-50	23-26	24-25	1.0-(1.0)
Socal (June 1983)	100	47	21	22	NA
PPA/DOE (October 1983)	98	47	23	23	0.7
DRI (Winter 1983)	NA	47	21	24	1.6
Texaco (December 1983)	101	47	21	24	1.5
Conoco (April 1984)	98	46	19	26	1.0
1990 Projections					
EIA	110	51	24	27	1.0
Tenneco (August 1982)	110	50	NA	NA	NA
IEA, Paris (October 1982)	NA	50-56	27-29	23-25	0.0-(2.0)
Socal (June 1983)	113	49	21	22	NA
PPA/DOE (October 1983)	108	51	26	25	0.0
DRI (Winter 1983)	NA	51	25	26	0.3
Texaco (December 1983)	113	50	25	24	0.5
Conoco (April 1984)	108	48	22	25	1.0
1995 Projections					
EIA	119	53	24	29	0.5
Tenneco (August 1982)	118	52	NA	NA	NA
IEA, Paris (October 1982)(3)	NA	54-65	26-29	24-26	0.0-(2.0)
Socal (June 1983)	126	52	24	22	NA
PPA/DOE (October 1983)	118	52	27	25	0.0
DRI (Winter 1983)	NA	54	28	26	(0.6)
Texaco (Winter 1983)(3)	125	52	29	23	0.3
Conoco (April 1984)	118	51	26	25	0.0

NA = Not Available

(1) Excludes 3.7, 3.9, and 4.3 million barrels per day oil-equivalent of natural gas liquids for 1985, 1990, and 1995, respectively.

(2) Includes 0-4 and 4-12 million barrels per day of excess demand for 1990 and 1995, respectively.

(3) Extrapolated from projections for 1990 and 2000.

Note: The market economies exclude the Centrally Planned Economies of Eastern Europe, the Soviet Union, China, Cuba, Kampuchea, North Korea, Laos, Mongolia, and Vietnam. Numbers in parentheses are net imports. Oil consumption and projection numbers may not balance because of rounding.

Source: U.S. Energy Information Administration, Annual Energy Outlook

SELECTED UNITED STATES ECONOMIC, DEMOGRAPHIC, AND ENERGY INDICATORS

Year	Gross National Product (Billion $ 1972)	Population (Millions)	Gross Energy Input(1) (Quadrillion Btu)	Gross Energy Per Dollar of 1972 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	470.3	144.1	33.0	70.2	229.0
1948	489.8	146.6	33.9	69.2	231.2
1949	492.2	149.2	31.5	64.0	211.1
1950	534.8	152.3	34.0	63.6	223.2
1951	579.4	154.9	36.8	63.5	237.6
1952	600.8	157.6	36.5	60.8	231.7
1953	623.6	160.2	37.6	60.3	234.7
1954	616.1	163.0	36.3	58.9	222.7
1955	667.5	165.9	39.7	60.4	239.3
1956	671.6	168.9	41.7	62.1	246.9
1957	683.8	172.0	41.7	61.0	242.2
1958	680.9	174.9	41.7	61.2	238.4
1959	721.7	177.8	43.1	59.7	242.4
1960	737.1	180.7	44.6	60.5	246.8
1961	756.6	183.8	45.3	59.9	246.5
1962	800.3	186.5	47.4	59.2	254.1
1963	832.5	189.2	49.3	59.2	260.5
1964	876.4	191.8	51.2	58.4	266.9
1965	929.3	194.3	53.3	57.4	274.3
1966	984.8	196.6	56.4	57.3	286.9
1967	1,011.4	198.7	58.3	57.6	293.4
1968	1,058,1	200.7	61.7	58.3	307.4
1969	1,087.6	202.7	65.0	59.8	320.7
1970	1,085.6	205.1	67.1	61.8	327.2
1971	1,122.4	207.7	68.3	60.9	328.8
1972	1,185.9	209.9	71.6	60.4	341.1
1973	1,254.0	212.0	74.6	59.5	351.9
1974	1,246.0	213.9	72.7	58.3	339.9
1975	1,232.0	216.0	70.5	57.2	326.4
1976	1,298.0	218.4	74.3	57.2	340.2
1977	1,370.0	220.2	76.2	55.6	346.1
1978	1,439.0	222.6	78.0	54.2	350.4
1979	1,479.0	225.6	78.8	53.3	349.3
1980	1,475.0	227.7	75.9	51.5	333.3
1981	1,514.0	229.3	73.9	48.8	322.3
1982	1,485.0	231.5	70.8	47.7	305.8
1983	1,535.0	234.0	70.6	46.0	301.7

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(1) Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal, including imports or their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

Source: U.S. Bureau of Mines, Press Release, March 14, 1977
U.S. Department of Commerce: U.S. Bureau of Census, Current Population Reports

Section I
Table 4

COMPARISON OF MIDPRICE ENERGY SUPPLY/DEMAND PROJECTIONS FOR 1990
(Quadrillion Btu per Year)

	AEO 1983	AEO 1982(1)	DRI Winter 83/84(2)	Chase IV/84(3)	Wharton Nov 83(4)	NEPP 1983(5
Domestic Energy Supply						
Oil	20.8	19.3	20.0	17.9	18.7	19.0
Natural Gas	16.7	16.4	16.1	15.9	17.9	18.2
Coal	23.1	23.9	21.7	21.9	24.3	24.5
Hydroelectric/ Geothermal/Other	3.3	3.2	3.8	4.0	3.7	3.4
Nuclear Power	6.3	6.3	6.1	4.8	6.2	6.5
Total Domestic Production	70.3	69.1	67.7	64.5	70.8	71.6
Net Imports						
Oil	12.6	15.1	12.5	14.9	14.2	12.4
Natural Gas	1.3	1.2	2.2	2.4	0.8	1.9
Coal, Coke, and Electricity	-2.4	-3.4	-2.8	-2.2	-3.8	-3.2
Total Supply	81.7	82.0	79.7	79.7	82.0	82.7
Consumption						
Residential	9.2	9.3	8.7	9.1	--	10.3
Commercial	7.1	6.9	6.4	6.1	--	7.2
Industrial	22.9	24.1	23.8	23.9	--	25.0
Transportation	19.5	16.9	19.0	19.1	--	16.7
Total End-Use Consumption	58.7	57.2	57.9	58.4	--	59.2

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(1) Industrial total does not include natural gas as a lease and plant fuel.
(2) Industrial total excludes hydroelectric power, solar energy, and exotic energy forms but includes natural gas used for lease and plant fuel and as a raw material. Transportation total excludes natural gas used as a transportation fuel.
(3) Sectoral consumption totals exclude electricity conversion losses. Natural gas used as a pipeline fuel has been from the transportation sector total.
(4) Electricity conversion losses incorporated in Wharton's sectoral energy consumption projections.
(5) Renewable energy consumption has been excluded from residential, commercial, and industry totals. Natural gas used by the transportation sector has been excluded from that sector's total consumption.
(6) Total supply includes adjustments for stock changes, gains, losses, unaccounted-for supply, etc.

Source: U.S. Department of Energy, Annual Energy Outlook 1983.

PROJECTIONS OF U.S. ENERGY DEMAND BY SECTOR FOR 1990
(Quadrillion Btu per Year)

Sector	AEO 1983	AEO 1982	DRI Winter 83/84	Chase IV/84	NEPP 1983(1)
End-Use Consumption					
Residential					
Oil and LPG	1.6	1.9	1.3	1.8	1.9
Natural Gas	4.6	4.3	4.4	4.4	5.3
Coal	0.1	0.1	0.1	0.1	0.1
Electricity	3.0	3.0	2.9	2.9	3.0
Total	9.2	9.3	8.7	9.1	10.3
Commercial					
Oil and LPG	1.3	1.5	0.9	0.9	1.1
Natural Gas	2.9	2.5	2.8	2.6	3.1
Coal	0.1	0.1	0.1	0.2	0.1
Electricity	2.8	2.8	2.5	2.5	2.8
Total	7.1	6.9	6.4	6.1	7.2
Industrial					
Oil and LPG	9.3	10.7	9.2	9.3	9.4
Natural Gas	6.6	6.0(2)	7.2	7.8	8.5
Coal	3.5	3.6	3.8	3.2	3.6
Electricity	3.5	3.8	3.6	3.5	3.5
Total	22.9	24.1	23.8	23.9	25.0
Transportation(3)					
Oil and LPG	19.5	16.9	19.0	19.1	16.7
Electric Utility					
Oil	1.6	4.0	2.2	2.0	2.0
Natural Gas	3.3	2.4	3.0	2.7	2.6
Coal	16.5	16.3	14.6	16.1	17.3
Nuclear Power	6.3	6.3	6.1	4.8	6.5
Other	3.7	3.2	4.3	3.9	3.5
Total	31.4	32.2	30.2	29.5	31.9

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(1) Renewable energy consumption excluded from all but the electric utility sector totals.
(2) Lease and plant fuel excluded from industrial natural gas end-use consumption.
(3) Pipeline gas not included under transportation end-use demand.
(4) Includes hydroelectric, geothermal, and other (woodwastes, solar, wind).

Source: U.S. Department of Energy, Annual Energy Outlook 1983

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)
(Trillion Btu)

Year	Coal(2)	Petroleum(3)	Natural Gas Dry	Hydro-power(4)	Nuclear Power(4)	Total Consumption
1947	15,824	11,367	4,518	1,326	-	33,035
1948	14,897	12,557	5,033	1,393	-	33,880
1949	12,631	12,119	5,289	1,449	-	31,488
1950	12,913	13,489	6,150	1,440	-	33,992
1951	13,225	14,848	7,248	1,454	-	36,775
1952	11,868	15,334	7,760	1,496	-	36,458
1953	11,893	16,098	8,156	1,439	-	37,586
1954	10,195	16,132	8,548	1,388	-	36,263
1955	11,540	17,524	9,232	1,407	-	39,703
1956	11,752	18,627	9,834	1,487	-	41,700
1957	11,168	18,570	10,416	1,551	1	41,706
1958	9,849	19,214	10,995	1,636	2	41,696
1959	9,810	19,747	11,990	1,591	2	43,140
1960	10,140	20,067	12,699	1,657	6	44,569
1961	9,906	20,487	13,228	1,680	18	45,319
1962	10,189	21,267	14,121	1,821	24	47,422
1963	10,714	21,950	14,843	1,767	34	49,308
1964	11,264	22,386	15,648	1,907	35	51,240
1965	11,908	23,242	16,097	2,058	38	53,343
1966	12,495	24,395	17,392	2,073	57	56,412
1967	12,256	25,335	18,250	2,344	80	58,265
1968	12,659	27,052	19,580	2,342	130	61,763
1969	12,733	28,421	21,020	2,659	146	64,979

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Includes anthracite, bituminous, lignite coal, and imported coke.

(3) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

(4) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree and J.A. West: "United States Energy Through The Year 2000," December 1972

Section I
Table 6a

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)
(Trillion Btu)

Year	Coal(2)	Petroleum(3)	Natural Gas Dry	Hydro-power(4)	Nuclear Power(4)	Total Consumption
1970	12,698	29,537	22,029	2,650	229	67,143
1971	12,043	30,570	22,469	2,862	404	68,348
1972	12,461	32,966	22,699	2,929	577	71,643
1973	12,903	34,840	22,512	3,010	910	74,212
1974	12,596	33,455	21,732	3,309	1,272	72,479
1975	12,601	32,731	19,948	3,219	1,900	70,485
1976	13,519	35,175	20,345	3,066	2,111	74,297
1977	13,848	37,122	19,931	2,515	2,702	76,215
1978	13,710	37,965	20,000	3,141	3,024	78,039
1979	14,983	37,123	20,666	3,141	2,776	78,845
1980	15,373	34,202	20,391	3,118	2,739	75,900
1981	15,860	31,931	19,926	3,105	3,008	73,940
1982	15,291	30,232	18,507	3,592	3,115	70,822
1983	15,877	29,983	17,503	3,857	3,235	70,573

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Includes anthracite, bituminous, lignite coal, and imported coke.

(3) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

(4) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

(5) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines: Press Release, February 1977
U.S. Department of Energy: 1973-1983: Energy Information Administration, Monthly Energy Review

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal[1]	Petroleum	Natural Gas	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs
1947	17,975	10,771	5,012	1,296	—	35,054
1948	17,158	11,717	5,615	1,369	—	35,859
1949	12,557	10,683	5,911	1,425	—	30,576
1950	14,647	11,449	6,841	1,415	—	34,352
1951	15,066	13,037	8,106	1,424	—	37,633
1952	13,262	13,282	8,705	1,466	—	36,715
1953	12,767	13,671	9,116	1,413	—	36,967
1954	11,001	13,427	9,488	1,360	—	35,276
1955	12,745	14,445	10,532	1,360	—	39,082
1956	13,747	15,344	11,252	1,435	—	41,778
1957	13,444	15,346	11,885	1,422	1	42,098
1958	11,201	14,154	12,244	1,592	2	39,193
1959	11,105	14,662(3)	13,361(3)	1,551(3)	2	40,681
1960	11,140	14,664(4)	14,135(4)	1,608(4)	6	41,553
1961	10,751	15,185	14,691	1,656	18	42,301
1962	11,211	15,495	15,365	1,816	24	43,911
1963	12,176	15,741	16,271	1,768	34	45,990
1964	12,854	15,691	17,138	1,886	35	47,604
1965	13,395	15,930	17,652	2,059	38	49,074
1966	13,836	16,925	18,984	2,062	57	51,864
1967	14,215	81,100	20,087	2,347	80	54,829
1968	13,955	18,593	21,548	2,349	130	56,575
1969	14,223	18,886	22,838	2,648	146	58,741
1970	15,067	20,401	24,154	2,630	229	62,481
1971	13,607	20,033	24,805	2,825	404	61,674
1972	14,500	20,041	24,792	2,866	576	62,775
1973	13,926	19,493	24,756	2,861	910	61,993
1974	14,010	18,575	23,681	3,177	1,272	60,770

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(1) Includes anthracite, bituminous and lignite coals.
(3) Includes Alaska
(4) Denotes first year for which figures include Alaska and Hawaii

Source: U.S. Department of Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Press Release

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Table 7a

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal(1)	Petroleum	Natural Gas(2)	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs(3)
1975	14,931	17,729	22,014	3,155	1,900	59,801
1976	15,649	17,262	21,807	2,976	2,111	59,886
1977	15,679	17,454	21,892	2,333	2,702	60,142
1978	14,856	18,434	21,730	2,937	3,024	61,049
1979	17,483	18,104	22,362	2,931	2,776	63,744
1980	18,544	18,249	22,161	2,900	2,739	64,708
1981	18,331	18,146	22,006	2,758	3,008	64,376
1982	18,603	18,309	20,446	3,271	3,115	63,851
1983	17,286	18,324	18,621	3,511	3,235	61,113

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(1) Includes anthracite, bituminous and lignite coals.
(2) Includes natural gas plant liquids
(3) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of Energy, Energy Information Administration: Monthly Energy Review

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR[1]
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electrical Generation	Miscellaneous and Un-Accounted for	Total Consumption[2]
1947	6,775	12,795	8,791	4,264	410	33,035
1948	7,039	12,322	8,781	4,725	1,014	33,880
1949	6,884	11,369	8,075	4,616	544	31,488
1950	7,593	12,325	8,616	4,981	477	33,992
1951	7,857	13,698	9,206	5,281	733	36,775
1952	7,979	13,098	9,168	5,518	695	36,458
1953	7,757	13,752	9,205	5,891	981	37,586
1954	7,968	12,515	9,113	5,940	727	36,263
1955	8,595	13,991	9,826	6,595	696	39,703
1956	8,963	14,588	10,132	7,082	935	41,700
1957	8,685	14,503	10,229	7,330	959	41,706
1958	9,467	13,507	10,275	7,317	1,130	41,696
1959	9,711	14,040	10,387	7,873	1,129	43,140
1960	10,174	14,642	10,818	8,263	672	44,569
1961	10,373	14,631	10,986	8,537	792	45,319
1962	10,948	15,249	11,415	9,093	717	47,422
1963	11,016	15,908	11,962	9,683	739	49,308
1964	11,143	16,698	12,261	10,375	763	51,240
1965	11,830	17,176	12,714	11,075	548	53,343
1966	12,388	18,028	13,345	12,054	597	56,412
1967	13,015	18,230	14,015	12,728	278	58,265
1968	13,109	19,363	15,156	13,892	243	61,763
1969	13,606	20,107	15,784	15,254	228	64,979
1970	13,988	20,225	16,473	16,242	215	67,143
1971	14,549	19,299	17,076	17,222	205	68,348
1972	14,917	19,835	18,081	18,543	233	71,609
1973	12,275	23,477	18,567	19,852	NA	74,212
1974	11,774	22,560	18,082	20,023	NA	72,479

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(2) Data may not add to totals because of independent rounding.

SOURCE: U.S. Department of the Interior: 1947-1969: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000," December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1974: U.S. Department of Energy, Monthly Energy Review

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR(1)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electrical Generation	Miscellaneous and Un-Accounted for	Total Consumption(2)
1975	11,598	20,300	18,205	20,350	NA	70,485
1976	12,253	21,374	19,058	21,573	NA	74,297
1977	11,875	21,829	19,773	22,694	NA	76,215
1978	11,908	21,815	20,558	23,722	NA	78,039
1979	11,526	22,723	20,429	24,129	NA	78,845
1980	10,721	20,984	19,656	24,501	NA	75,900
1981	10,053	19,654	19,458	24,752	NA	73,940
1982	10,072	17,410	19,029	24,271	NA	70,822
1983	9,761	16,870	18,959	24,975	NA	70,573

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(2) Data may not add to totals because of independent rounding and consumption of geothermal power and electricity produced from wood, waste and wind energy.

SOURCE: U.S. Department of Energy, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

Year	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	273,403	7,298	418.3	2,490	2,905,571	3,007	135	459	13,254
1948	244,214	6,516	427.0	2,530	3,164,928	3,276	147	500	12,822
1949	208,919	5,571	415.6	2,466	3,219,197	3,332	142	485	11,854
1950	223,507	5,957	442.4	2,641	3,601,757	3,727	164	559	12,884
1951	238,776	6,403	516.1	3,044	4,107,117	4,251	192	656	14,354
1952	211,146	5,673	515.0	3,034	4,242,986	4,391	200	682	13,780
1953	226,865	6,105	524.7	3,093	4,389,128	4,554	224	765	14,517
1954	179,148	4,860	529.8	3,118	4,383,197	4,537	235	802	13,317
1955	214,946	5,726	566.7	3,330	4,768,562	4,935	295	1,008	14,999
1956	217,810	5,805	626.6	3,688	4,922,139	5,095	326	1,113	15,701
1957	213,404	5,695	595.8	3,478	5,150,413	5,330	332	1,133	15,636
1958	175,600	4,675	570.3	3,292	5,352,294	5,540	323	1,102	14,609
1959	169,924	4,530	625.1	3,589	5,720,756	5,921	356	1,215	15,255
1960	175,225	4,673	643.9	3,682	6,074,114	6,287	383	1,306	15,948
1961	168,090	4,478	642.6	3,682	6,221,668	6,471	383	1,306	15,937
1962	169,995	4,527	678.8	3,880	6,579,008	6,842	411	1,402	16,651
1963	178,201	4,754	702.0	3,994	6,917,738	7,160	429	1,464	17,372
1964	189,561	5,063	744.6	4,184	7,198,706	7,451	453	1,544	18,242
1965	200,688	5,366	740.4	4,139	7,433,200	7,671	479	1,634	18,810
1966	204,945	5,472	781.0	4,353	7,948,486	8,203	524	1,788	19,816
1967	194,595	5,199	798.4	4,432	8,332,614	8,599	547	1,868	20,098
1968	191,602	5,124	897.2	4,965	8,987,095	9,274	599	2,044	21,407
1969	188,586	5,051	943.6	5,171	9,587,670	9,885	632	2,155	22,262

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972

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UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	186,637	5,002	940.4	5,061	9,856,844	10,161	648	2,210	22,434
1971	158,866	4,303	947.9	5,088	9,577,212	9,874	682	2,327	21,592
1972	160,624	4,275	1,058.2	5,643	9,622,659	9,882	741	2,528	22,328
1973	162,745	3,984	1,637.6	9,113	10,184,314	10,388	698	2,376	25,861
1974	155,865	3,800	1,570.9	8,698	9,768,555	10,003	695	2,370	24,930(4)
1975	147,926	3,602	1,474.8	8,151	8,364,706	8,532	697	2,378	22,678(4)
1976	147,035	3,595	1,629.0	9,018	8,597,645	8,761	764	2,606	23,980(4)
1977	139,499	3,394	1,762.6	9,786	8,474,975	8,636	796	2,715	24,545(4)
1978	135,075	3,258	1,783.3	9,890	8,404,528	8,539	819	2,793	24,608(4)
1979	145,770	3,532	1,952.7	10,576	8,397,839	8,549	852	2,907	25,630(4)
1980	127,433	3,103	1,771.6	9,524	8,198,242	8,394	825	2,814	23,798
1981	128,737	3,109	1,562.1	8,295	8,055,555	8,265	835	2,850	22,519
1982	105,351	2,520	1,481.9	7,798	6,935,673	7,116	756	2,575	20,009
1983	103,277	2,458	1,465.4	7,733	6,464,912	6,663	776	2,648	19,502

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.
(4) Total includes small amounts of imported coke.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1983: Energy Information Administration, Monthly Energy Review

Section I
Table 10

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	128,657	3,399	385.3	2,251	1,087,000	1,125	115	391	7,166
1948	122,994	3,238	436.0	2,539	1,219,402	1,262	130	442	7,481
1949	114,639	3,025	425.5	2,472	1,340,362	1,387	143	488	7,372
1950	110,422	2,913	526.2	3,038	1,586,207	1,642	160	546	8,139
1951	100,057	2,648	552.0	3,202	1,939,034	2,007	180	615	8,472
1952	91,212	2,416	577.1	3,350	2,137,635	2,213	195	666	8,645
1953	77,976	2,072	585.4	3,391	2,216,153	2,294	215	733	8,490
1954	65,425	1,752	630.4	3,650	2,478,205	2,566	234	797	8,765
1955	66,039	1,745	691.7	4,001	2,753,171	2,849	250	854	9,449
1956	61,685	1,629	721.8	4,183	3,044,435	3,151	274	935	9,898
1957	46,382	1,225	703.4	4,069	3,276,185	3,391	299	1,019	9,704
1958	45,005	1,187	788.3	4,568	3,586,025	3,712	321	1,095	10,562
1959	36,700	969	817.5	4,718	3,887,708	4,024	353	1,203	10,914
1960	37,180	983	853.3	4,923	4,123,389	4,268	370	1,262	11,436
1961	32,805	868	871.9	5,028	4,325,427	4,477	406	1,385	11,758
1962	32,955	872	907.7	5,227	4,685,231	4,849	437	1,490	12,438
1963	27,603	731	915.0	5,258	4,856,804	5,027	482	1,645	12,661
1964	22,949	609	903.7	5,191	5,162,009	5,343	525	1,792	12,935
1965	25,676	678	978.0	5,635	5,346,450	5,517	571	1,948	13,778
1966	25,587	677	1,000.1	5,766	5,760,999	5,945	616	2,101	14,489
1967	22,134	585	1,078.9	6,206	6,029,855	6,223	661	2,257	15,271
1968	19,983	529	1,069.5	6,129	6,250,997	6,451	723	2,467	15,576
1969	16,875	447	1,099.6	6,269	6,682,804	6,890	807	2,752	16,358

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West. "United States Energy Through The Year 2000," December 1972

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Table 10a

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	16,114	427	1,128.4	6,453	6,984,007	7,108	879	3,000	16,988
1971	15,201	406	1,124.9	6,430	7,480,667	7,713	940	3,209	17,758
1972	11,708	308	1,168.4	6,666	7,733,964	7,943	1,019	3,478	18,395
1973	10,580	259	815.1	4,391	7,476,470	7,626	1,024	3,495	15,771
1974	10,664	260	743.2	3,996	7,341,797	7,518	1,018	3,475	15,249
1975	8,706	212	710.2	3,805	7,432,352	7,581	1,056	3,604	15,202
1976	8,425	206	776.7	4,181	7,719,333	7,866	1,098	3,747	16,000
1977	8,508	207	780.5	4,206	7,321,884	7,461	1,159	3,955	15,830
1978	8,914	215	756.2	4,070	7,503,937	7,624	1,206	4,116	16,024
1979	7,759	188	630.2	3,448	7,751,473	7,891	1,226	4,184	15,710
1980	6,037	147	555.0	3,035	7,347,953	7,539	1,276	4,355	15,076
1981	7,081	171	487.0	2,634	7,065,302	7,249	1,314	4,497	14,550
1982	7,901	189	454.2	2,449	7,244,639	7,433	1,338	4,566	14,638
1983	8,067	192	433.9	2,326	7,046,693	7,244	1,373	4,683	14,445

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior:
1970: U.S. Bureau of Mines, Minerals Yearbook 1972
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1983: U.S. Department of Energy, Monthly Energy Review

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UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	113,324	3,030	1,050.3	5,761	Neg.	--	8	29	8,820
1948	98,295	2,624	1,126.6	6,157	Neg.	--	8	27	8,808
1949	70,915	1,892	1,137.8	6,183	Neg.	--	7	25	8,100
1950	63,783	1,701	1,248.8	6,785	125,546	130	7	24	8,640
1951	56,903	1,525	1,377.5	7,482	192,496	199	7	23	9,229
1952	40,428	1,086	1,451.3	7,868	207,207	214	6	22	9,190
1953	30,074	809	1,511.5	8,158	230,314	238	6	20	9,225
1954	19,060	516	1,551.4	8,358	230,615	239	6	18	9,131
1955	17,429	464	1,691.4	9,109	245,246	253	6	19	9,845
1956	14,187	378	1,756.2	9,448	295,972	306	5	17	10,149
1957	10,126	270	1,832.0	9,649	299,235	310	4	15	10,244
1958	5,015	133	1,825.1	9,819	312,221	323	5	16	10,291
1959	3,861	102	1,849.4	9,923	349,348	362	5	17	10,404
1960	3,294	87	1,934.1	10,372	347,075	359	5	18	10,836
1961	770	21	1,971.9	10,575	377,607	390	6	19	11,005
1962	687	18	2,051.3	11,001	382,496	396	5	18	11,433
1963	670	18	2,146.7	11,506	423,783	438	6	19	11,981
1964	711	19	2,198.9	11,791	435,570	451	6	20	12,281
1965	655	18	2,271.9	12,179	500,524	517	5	18	12,732
1966	609	16	2,382.6	12,777	535,353	552	5	16	13,361
1967	467	13	2,497.1	13,408	575,752	594	5	17	14,032
1968	417	11	2,703.8	14,535	590,965	610	5	18	15,174
1969	313	8	2,815.8	15,125	630,962	651	5	17	15,801

(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior. W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972.

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	298	8	2,923.8	15,720	772,166	745	5	16	16,489
1971	207	6	3,035.1	16,304	742,592	766	5	17	17,093
1972	163	4	3,217.5	17,290	766,156	787	5	17	18,098
1973	112	3	3,302.0	17,821	728,431	743	3	9	18,576
1974	38	2	2,931.6	17,396	668,945	685	3	9	18,091
1975	0	1	3,265.9	17,610	583,333	595	3	10	18,215
1976	0	0	3,428.3	18,499	548,577	559	3	10	19,068
1977	0	0	3,559.2	19,230	532,875	543	3	10	19,783
1978	0	0	3,702.4	20,019	530,512	539	3	9	20,567
1979	0	0	3,649.5	19,817	601,179	612	3	10	20,439
1980	0	0	3,494.3	19,009	632,813	648	3	11	19,667
1981	0	0	3,459.7	18,800	641,601	658	4	11	19,469
1982	0	0	3,396.0	18,417	596,304	613	4	11	19,040
1983	0	0	3,396.2	18,380	560,311	578	3	10	18,968

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1983: Energy Information Administration, Monthly Energy Review

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Table 12

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

	COAL[1]		PETROLEUM		NATURAL GAS		HYDROPOWER[2]		NUCLEAR POWER		TOTAL ENERG INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1947	89,531	2,084	75.5	468	373,037	386	84,981	1,326	--	--	4,264
1948	99,586	2,392	71.7	444	478,097	495	88,535	1,393	--	--	4,724
1949	83,964	2,021	92.7	577	550,121	569	96,361	1,449	--	--	4,616
1950	91,871	2,228	106.3	662	628,919	651	102,671	1,440	--	--	4,981
1951	105,768	2,537	80.1	499	763,898	791	106,554	1,454	--	--	5,281
1952	107,071	2,588	78.8	492	910,117	942	111,977	1,496	--	--	5,518
1953	115,883	2,805	92.3	577	1,034,272	1,070	111,625	1,439	--	--	5,891
1954	118,401	2,866	76.8	480	1,165,498	1,206	113,980	1,388	--	--	5,940
1955	143,759	3,482	81.9	512	1,153,280	1,194	120,304	1,407	--	--	6,595
1956	158,279	3,815	79.4	497	1,239,311	1,283	129,775	1,487	--	--	7,082
1957	160,761	3,881	81.9	512	1,338,079	1,385	136,959	1,551	10	1	7,330
1958	155,714	3,743	82.4	515	1,372,853	1,421	147,581	1,636	165	2	7,317
1959	168,427	4,050	87.2	546	1,627,097	1,684	145,002	1,591	188	2	7,873
1960	176,633	4,251	90.1	564	1,724,763	1,785	153,958	1,657	518	6	8,263
1961	182,138	4,374	92.1	577	1,825,341	1,889	157,754	1,680	1,692	17	8,537
1962	193,128	4,636	92.4	579	1,965,590	2,034	172,458	1,821	2,270	23	9,093
1963	211,193	5,065	95.7	600	2,142,930	2,218	168,573	1,767	3,212	33	9,683
1964	225,271	5,395	101.4	636	2,321,889	2,403	182,258	1,907	3,341	34	10,375
1965	244,887	5,843	118.6	744	2,318,253	2,392	196,843	2,058	3,657	38	11,075
1966	266,394	6,327	144.2	905	2,608,768	2,692	199,030	2,073	5,520	57	12,054
1967	273,970	6,457	161.3	1,013	2,746,352	2,834	224,650	2,344	7,655	80	12,728
1968	296,942	6,994	188.0	1,181	3,143,858	3,245	225,242	2,342	12,528	130	13,892
1969	310,310	7,227	259.8	1,628	3,486,391	3,594	254,540	2,659	13,928	146	15,254
1970	322,357	7,261	333.8	2,087	3,894,019	4,015	252,571	2,650	21,801	229	16,242
1971	327,926	7,330	407.1	2,543	3,992,983	4,117	269,899	2,828	37,899	404	17,222
1972	350,196	7,836	503.7	3,134	3,978,673	4,086	280,470	2,911	54,032	576	18,543
1973	388,321	8,658	587.4	3,515	3,605,333	3,748	285,975	2,975	83,292	910	19,806
1974	391,566	8,535	559.9	3,365	3,429,231	3,519	313,733	3,276	113,602	1,272	19,967

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Minerals Yearbook 1975

Section I
Table 12a

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

	COAL(1)		PETROLEUM		NATURAL GAS		HYDROPOWER(2)		NUCLEAR POWER		TOTAL ENERGY INPUTS(3)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1975	405,633	8,786	506.6	3,166	3,158,869	3,240	305,266	3,187	172,523	1,900	20,350
1976	448,133	9,720	556.2	3,477	3,082,111	3,152	292,297	3,032	191,093	2,111	21,573
1977	476,862	10,243	624.3	3,901	3,192,420	3,284	237,853	2,482	250,905	2,702	22,694
1978	481,015	10,236	637.8	3,987	3,188,588	3,297	300,164	3,110	284,210	3,024	23,722
1979	526,848	11,264	524.6	3,283	3,491,296	3,609	300,106	3,107	255,171	2,776	24,129
1980	569,108	12,122	421.2	2,634	3,681,818	3,807	296,918	3,085	251,128	2,739	24,501
1981	596,572	12,583	351.9	2,202	3,639,884	3,760	293,887	3,072	272,711	3,008	24,752
1982	593,491	12,582	250.6	1,568	3,225,121	3,338	339,924	3,559	282,796	3,115	24,271
1983	625,047	13,226	246.9	1,544	2,909,179	3,011	365,234	3,824	293,690	3,235	24,975

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments
(3) Total includes small amounts of geothermal power and electricity from wood and waste

Source: U.S. Department of Energy: Monthly Energy Review

SECTION II. RESERVES, CRUDE OIL

Table 1. Estimated Proved World Reserves of Crude Oil

Table 2. The Reserves of United States Crude Oil

Table 3. Estimated World Proven Crude Oil Reserves -- Twenty Leading Nations

Table 4. USGS Estimates of U.S. Oil and Gas Resources

ESTIMATED PROVED WORLD RESERVES OF CRUDE OIL
ANNUALLY AS OF JANUARY 1
(Thousands of Barrels)

Year	United States	Canada	Latin America	• Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World
1948	21,487,685	125,000	10,085,000	31,697,685	28,550,000	100,000	1,300,000	50,000	61,697,685	6,500,000	68,197,685
1949	23,280,444	500,000	10,880,000	34,660,444	32,621,000	122,000	1,372,000	179,000	68,954,444	4,645,000	73,599,444
1950	24,649,489	1,200,000	11,400,800	37,250,289	32,413,000	202,500	1,557,000	288,950	71,711,739	4,741,000	76,452,739
1951	25,268,398	1,202,607	11,525,000	37,996,005	41,567,000	188,000	1,765,000	445,400	81,961,405	7,965,000	89,926,405
1952	27,468,031	1,376,600	12,710,850	41,555,481	51,320,000	175,000	1,965,500	501,500	95,517,481	7,927,000	103,444,481
1953	27,960,554	1,679,509	11,883,500	41,523,563	64,825,000	163,000	2,062,000	472,700	109,046,263	9,408,000	118,454,263
1954	28,944,828	1,845,422	13,182,000	43,972,250	78,160,000	158,000	2,583,000	641,500	125,514,750	9,455,000	134,969,750
1955	29,560,746	2,207,614	14,356,000	46,124,360	97,459,000	112,000	2,708,000	1,049,200	147,452,560	10,047,000	157,499,560
1956	30,012,170	2,509,534	15,515,000	48,036,704	126,271,000	169,000	3,000,000	1,261,000	178,737,704	10,833,000	189,570,704
1957	30,434,649	2,849,370	17,474,000	50,758,019	144,470,000	285,000	6,140,000	1,305,000	202,958,019	25,000,000	227,958,019
1958	30,300,405	2,874,454	21,003,500	54,178,359	169,566,000	814,000	8,578,000	1,304,000	234,440,359	26,200,000	260,640,359
1959	30,535,917	3,165,904	21,843,000	55,544,821	173,951,000	4,118,500	9,646,500	1,437,000	244,697,821	27,705,000	272,402,821
1960	31,719,347	3,497,124	24,435,600	59,652,071	181,436,000	7,273,500	10,175,500	1,496,000	260,033,071	30,002,000	290,035,071
1961	31,613,211	3,678,542	25,061,800	60,353,553	183,160,000	8,099,500	10,906,500	1,722,000	264,241,553	33,502,000	297,743,553
1962	31,758,505	4,173,569	24,706,000	60,638,074	188,204,000	9,709,500	10,867,600	1,736,000	271,155,174	34,252,000	305,407,174
1963	31,389,223	4,480,702	24,225,500	60,095,425	193,975,000	12,345,500	11,331,100	1,791,000	279,538,025	29,976,000	309,514,025
1964	30,969,990	4,881,492	24,305,000	60,156,482	207,368,000	16,375,500	11,621,200	1,925,600	297,446,782	29,500,000	326,946,782
1965	30,990,510	6,177,546	25,525,000	62,693,056	212,180,000	19,395,600	11,613,700	2,035,600	307,917,956	30,750,000	338,667,956
1966	31,352,391	6,711,237	25,170,500	63,234,128	215,360,000	23,049,000	11,008,750	2,085,000	314,736,878	33,377,000	348,118,878
1967	31,452,127	7,791,751	27,100,300	66,344,178	235,614,600	32,355,500	11,808,472	1,924,500	348,047,250	33,838,000	381,885,250
1968	31,376,670	8,168,924	26,907,250	66,452,844	249,209,000	42,285,250	11,815,945	2,017,000	371,780,039	35,773,000	407,553,039
1969	30,707,117	8,381,613	28,782,775	67,871,505	270,760,000	44,568,800	13,720,200	1,937,000	398,857,505	55,877,000	454,734,505
1970	29,631,862	8,619,805	29,179,750	67,431,417	333,506,000	54,679,500	13,138,150	1,779,000	470,534,067	60,000,000	530,534,067
1971	39,001,335(1)	8,558,980	26,185,250	73,745,565	344,574,900	74,757,520	14,408,648	3,708,500	511,195,133	100,000,000	611,195,133
1972	38,062,957(1)	8,333,087	31,558,750	77,954,794	367,386,000	58,886,200	15,604,500	14,222,000	534,053,494	98,500,000	632,553,494
1973	36,339,408(1)	8,020,141	32,601,750	76,961,299	355,852,000	106,402,000	14,922,260	12,082,000	566,219,559	98,000,000	664,219,559
1974	35,299,839(1)	7,674,150	31,640,250	74,614,239	350,162,500	67,303,750	15,635,040	15,990,950	523,706,479	103,000,000	626,706,479
1975	34,249,956(1)	7,171,229	40,578,000	81,999,185	403,858,200	68,299,450	21,047,700	25,814,000	601,018,535	111,400,000	712,418,535
1976	32,682,127(1)	6,653,002	35,368,000	74,703,129	368,410,570	65,085,220	21,234,230	25,487,700	554,920,849	103,000,000	657,920,849
1977	30,942,166	6,247,082	29,608,950	66,808,198	367,681,220	60,570,200	19,391,140	24,538,810	538,989,568	101,100,000	640,089,568
1978	29,486,402	5,970,872	40,270,000	75,827,274	366,166,000	59,200,150	19,749,270	26,862,500	547,805,194	98,000,000	645,805,194
1979	27,803,760	6,860,000	41,246,500	75,910,260	369,996,000	57,892,125	20,007,200	23,966,000	547,771,585	94,000,000	641,771,585
1980	27,051,289	6,800,000	56,472,500	90,323,789	361,947,300	57,072,100	19,355,200	23,476,400	522,174,789	90,000,000	642,174,789
1981	29,805,000	6,400,000	69,489,837	105,694,837	352,071,000	55,148,375	19,630,500	23,085,000	565,629,712	86,300,000	651,929,712
1982	29,426,000	7,300,000	84,982,270	121,708,270	362,839,950	56,171,630	19,150,800	24,634,500	584,505,150	85,845,000	670,350,150
1983	27,858,000	7,020,000	78,482,066	113,360,066	369,285,893	57,821,690	19,756,077	22,923,680	583,147,406	85,115,000	668,262,406
1984	27,735,000	6,730,000	81,675,900	116,140,900	370,100,800	56,907,020	18,969,400	23,019,480	585,137,600	84,600,000	669,737,600
1985	27,300,000	7,075,000	83,315,700	117,690,700	398,380,750	55,540,550	18,529,900	24,425,500	614,567,400	84,100,000	698,667,400

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(1) Figures include 9.6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.

Source: 1948-1980—United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
1981-1984—United States, U.S. Energy Information Administration
Canada, Canadian Petroleum Association (1952-1980)
Rest of the World, Oil and Gas Journal, "Worldwide Oil" Issues

Section II
Table 2

THE RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions and Discoveries, During Year	Production During Year (1)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1947	20,873,560	2,464,570	1,850,445	21,487,685	11.6
1948	21,487,685	3,795,207	2,002,448	23,280,444	11.6
1949	23,280,444	3,187,845	1,818,800	24,649,489	13.6
1950	24,649,489	2,562,685	1,943,776	25,268,398	13.0
1951	25,268,398	4,413,954	2,214,321	27,468,031	12.4
1952	27,468,031	2,749,288	2,256,765	27,960,554	12.4
1953	27,960,554	3,296,130	2,311,856	28,944,828	12.5
1954	28,944,828	2,873,037	2,257,119	29,560,746	13.1
1955	29,560,746	2,870,724	2,419,300	30,012,170	12.4
1956	30,012,170	2,974,336	2,551,857	30,434,649	11.9
1957	30,434,649	2,424,800	2,559,044	30,300,405	11.8
1958	30,300,405	2,608,242	2,372,730	30,535,917	12.9
1959	30,535,917	3,666,745	2,483,315	31,719,347	12.8
1960	31,719,347	2,365,328	2,471,464	31,613,211	12.8
1961	31,613,211	2,657,567	2,512,273	31,758,505	12.6
1962	31,758,505	2,180,896	2,550,178	31,389,223	12.3
1963	31,389,223	2,174,110	2,593,343	30,969,990	11.9
1964	30,969,990	2,664,767	2,644,247	30,990,510	11.7
1965	30,990,510	3,048,079	2,686,198	31,352,391	11.7
1966	31,352,391	2,963,978	2,864,242	31,452,127	11.0
1967	31,452,127	2,962,122	3,037,579	31,376,670	10.3
1968	31,376,670	2,454,635	3,124,188	30,707,117	9.8
1969	30,707,117	2,120,036	3,195,291	29,631,862	9.3
1970	29,631,862	12,688,918 (2)	3,319,445	39,001,335 (2)	11.7 (2)
1971	39,001,335 (2)	2,317,732	3,256,110	38,062,957 (2)	11.7 (2)
1972	38,062,957 (2)	1,557,848	3,281,397	36,339,408 (2)	11.1 (2)
1973	36,339,408 (2)	2,145,831	3,185,400	35,299,839 (2)	11.1 (2)
1974	35,299,839 (2)	1,993,573	3,043,456	34,249,956 (2)	11.3 (2)

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(1) Production is the amount originally estimated and used by API in prior reserves reports.
(2) Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968).

Source: American Petroleum Institute, Committee on Reserves and Productive Capacity.

Section II
Table 2a

THE RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions and Discoveries, During Year	Production During Year (1)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1975	34,249,956(2)	1,318,463	2,886,292	32,682,127(2)	11.3(2)
1976	32,682,127(2)	1,085,291	2,825,252	30,942,166(2)	11.0(2)
1977	30,942,166	1,403,780	2,859,544	29,486,402	10.3
1978	29,486,402	1,347,616	3,029,898	27,803,760	9.2
1979	27,803,760	2,205,673	2,958,144	27,051,289	9.1
1980	29,810,000	2,970,000	2,975,000	29,805,000	10.0
1981	29,805,000	2,570,000	2,949,000	29,426,000	10.0
1982	29,426,000	1,382,000	2,950,000	27,858,000	9.4
1983	27,858,000	2,897,000	3,020,000	27,735,000	9.2

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(1) Production is the amount originally estimated and used by API in prior reserves reports (through 1979).
(2) Figures include approximately 10.0 billion barrels located in Prudhoe Bay, Alaska.

Source: American Petroleum Institute, Committee on Reserves
1980-1983: U.S. Department of Energy, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1975	Nation	1976	Nation	1977
1. Saudi Arabia(1)	164,500,000	1. Saudi Arabia(1)	148,600,000	1. Saudi Arabia(1)	151,400,000
2. U.S.S.R.	83,400,000	2. U.S.S.R.	80,400,000	2. U.S.S.R.	78,100,000
3. Kuwait(1)	72,800,000	3. Kuwait(1)	68,000,000	3. Kuwait(1)	67,400,000
4. Iran	66,000,000	4. Iran	64,500,000	4. Iran	63,000,000
5. Iraq	35,000,000	5. Iraq	34,300,000	5. Iraq	34,000,000
6. United States	34,249,956	6. United States	32,682,127	6. United Arab Emirates	31,200,000
7. United Arab Emirates	33,920,000	7. United Arab Emirates	32,200,000	7. United States	30,942,166
8. Libya	26,600,000	8. Libya	26,100,000	8. Libya	25,500,000
9. People's Republic of China	25,000,000	9. Nigeria	20,200,000	9. People's Republic of China	20,000,000
10. Nigeria	20,900,000	10. People's Republic of China	20,000,000	10. Nigeria	19,500,000
11. United Kingdom	15,700,000	11. Venezuela	17,700,000	11. United Kingdom	16,800,000
12. Venezuela	15,000,000	12. United Kingdom	16,000,000	12. Venezuela	15,270,000
13. Indonesia	15,000,000	13. Indonesia	14,000,000	13. Indonesia	10,500,000
14. Mexico	13,582,000	14. Mexico	9,500,000	14. Mexico	7,000,000
15. Algeria	7,700,000	15. Algeria	7,370,000	15. Algeria	6,800,000
16. Norway	7,300,000	16. Norway	7,000,000	16. Canada	6,257,082
17. Canada	7,171,229	17. Canada	6,653,002	17. Oman	5,800,000
18. Oman	6,000,000	18. Oman	5,900,000	18. Qatar	5,700,000
19. Qatar	6,000,000	19. Qatar	5,850,000	19. Norway	5,660,000
20. Congo Republic	4,874,000	20. Egypt	3,900,000	20. India	3,000,000
TOTAL FREE WORLD	601,018,535	TOTAL FREE WORLD	554,920,849	TOTAL FREE WORLD	538,989,568
TOTAL WORLD	712,418,535	TOTAL WORLD	657,920,849	TOTAL WORLD	640,089,568

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 17.3 billion barrels in 1975, 6.4 billion barrels in 1976, and 6.3 billion barrels in 1977. This production is not included in the above figures.

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

Section II
Table 3a

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1978	Nation	1979	Nation	1980
1. Saudi Arabia(1)	150,000,000	1. Saudi Arabia(1)	165,700,000	1. Saudi Arabia(1)	163,350,000
2. U.S.S.R.	75,000,000	2. U.S.S.R.	71,000,000	2. U.S.S.R.	67,000,000
3. Kuwait(1)	67,000,000	3. Kuwait(1)	66,200,000	3. Kuwait(1)	65,400,000
4. Iran	62,000,000	4. Iran	59,000,000	4. Iran	58,000,000
5. Iraq	34,500,000	5. Iraq	32,100,000	5. Mexico	31,250,000
6. United Arab Emirates	32,425,000	6. Abu Dhabi	30,000,000	6. Iraq	31,000,000
7. United States	29,486,402	7. United States	27,803,760	7. Abu Dhabi	28,000,000
8. Libya	25,000,000	8. Libya	24,300,000	8. United States	27,051,289
9. People's Republic of China	20,000,000	9. People's Republic of China	20,000,000	9. Libya	23,500,000
10. United Kingdom	19,000,000	10. Nigeria	18,200,000	10. People's Republic of China	20,000,000
11. Nigeria	18,700,000	11. Venezuela	18,000,000	11. Venezuela	17,870,000
12. Venezuela	18,200,000	12. Mexico	16,000,000	12. Nigeria	17,400,000
13. Mexico	14,000,000	13. United Kingdom	16,000,000	13. United Kingdom	15,400,000
14. Indonesia	10,000,000	14. Indonesia	10,200,000	14. Indonesia	9,600,000
15. Algeria	6,600,000	15. Canada	6,860,000	15. Algeria	8,440,000
16. Norway	6,000,000	16. Algeria	6,300,000	16. Canada	6,800,000
17. Canada	5,970,872	17. Norway	5,900,000	17. Norway	5,750,000
18. Oman	5,650,000	18. Qatar	4,000,000	18. Qatar	3,760,000
19. Qatar	5,600,000	19. Egypt	3,200,000	19. Egypt	3,100,000
20. India	3,000,000	20. India	2,900,000	20. Malaysia	2,800,000
TOTAL FREE WORLD	547,805,194	TOTAL FREE WORLD	547,771,585	TOTAL FREE WORLD	552,174,789
TOTAL WORLD	645,805,194	TOTAL WORLD	641,771,585	TOTAL WORLD	642,174,789

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6.2 billion barrels in 1978, 6.5 billion barrels in 1979, and 6.3 billion barrels in 1980. These figures are not included in the above figures.

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1981	Nation	1982	Nation	1983
1. Saudi Arabia(1)	165,000,000	1. Saudi Arabia(1)	164,600,000	1. Saudi Arabia(1)	162,400,000
2. Kuwait(1)	64,900,000	3. Kuwait(1)	64,480,000	3. Kuwait(1)	64,230,000
3. U.S.S.R.	63,000,000	2. U.S.S.R.	63,000,000	2. U.S.S.R.	63,000,000
4. Iran	57,500,000	4. Iran	57,000,000	4. Iran	55,308,000
5. Mexico	44,000,000	5. Mexico	56,990,000	5. Mexico	48,300,000
6. Iraq	30,000,000	6. Abu Dhabi	30,600,000	6. Iraq	41,000,000
7. Abu Dhabi	29,000,000	7. United States	29,426,000	7. Abu Dhabi	30,510,000
8. United States	29,805,000	8. Iraq	29,700,000	8. United States	27,858,000
9. Libya	23,000,000	9. Libya	22,600,000	9. Libya	21,500,000
10. China	20,500,000	10. Venezuela	20,300,000	10. Venezuela	21,500,000
11. Venezuela	17,950,000	11. China	19,895,000	11. China	19,485,000
12. Nigeria	16,700,000	12. Nigeria	16,500,000	12. Nigeria	16,750,000
13. United Kingdom	14,800,000	13. United Kingdom	14,800,000	13. United Kingdom	13,900,000
14. Indonesia	9,500,000	14. Indonesia	9,800,000	14. Indonesia	9,550,000
15. Algeria	8,200,000	15. Algeria	8,080,000	15. Algeria	9,440,000
16. Canada	6,400,000	16. Norway	7,620,000	16. Canada	7,020,000
17. Norway	5,500,000	17. Canada	7,300,000	17. Norway	6,800,000
18. Qatar	3,585,000	18. Qatar	3,434,000	18. Qatar	3,425,000
19. Malaysia	3,000,000	19. Egypt	2,930,000	19. Malaysia	3,325,000
20. Egypt(2)	2,900,000	20. Malaysia	2,800,000	20. Egypt	3,325,000
TOTAL FREE WORLD	565,629,712	TOTAL FREE WORLD	585,505,150	TOTAL FREE WORLD	583,147,406
TOTAL WORLD	651,929,712	TOTAL WORLD	670,350,150	TOTAL WORLD	668,262,406

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6,260 mb in 1981, 6,500 mb in 1982, and 5,840 mb in 1983. This production is not included in the above figures.

Source: United States, U.S. Energy Information Administration
Rest of World, Oil and Gas Journal

Section II
Table 3c

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES - TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

	Nation	1984			
1.	Saudi Arabia(1)	166,000,000	1.	Saudi Arabia	169,000,000
2.	Kuwait(1)	63,900,000	2.	Kuwait	90,000,000
3.	U.S.S.R.	63,000,000	3.	U.S.S.R.	63,000,000
4.	Iran	51,000,000	4.	Mexico	48,600,000
5.	Mexico	48,000,000	5.	Iran	48,500,000
6.	Iraq	43,000,000	6.	Iraq	44,500,000
7.	Abu Dhabi	30,400,000	7.	Abu Dhabi	30,500,000
8.	United States	27,735,000	8.	United States	27,300,000
9.	Venezuela	24,850,000	9.	Venezuela	25,845,000
10.	Libya	21,270,000	10.	Libya	21,100,000
11.	China	19,100,000	11.	China	19,100,000
12.	Nigeria	16,550,000	12.	Nigeria	16,650,000
13.	United Kingdom	13,150,000	13.	United Kingdom	13,590,000
14.	Algeria	9,220,000	14.	Algeria	9,000,000
15.	Indonesia	9,100,000	15.	Indonesia	8,650,000
16.	Norway	7,660,000	16.	Norway	8,300,000
17.	Canada	6,730,000	17.	Canada	7,075,000
18.	India	3,485,000	18.	Oman	3,500,000
19.	Egypt	3,450,000	19.	India	3,500,000
20.	Qatar	3,330,000	20.	Qatar	3,350,000
	TOTAL FREE WORLD	585,137,600		TOTAL FREE WORLD	614,567,400
	TOTAL WORLD	669,737,600		TOTAL WORLD	698,667,400

(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 5,695 MB in 1984 and 5,420 MB in 1985.

Source: 1984- United States, U.S. Energy Information Administration
Rest of World, Oil and Gas Journal
1985- Oil and Gas Journal, "Worldwide Report" issue

Section II
Table 4

USGS ESTIMATES OF U.S. OIL AND GAS RESOURCES

	CRUDE OIL (billion barrels)							NATURAL GAS (trillion cubic feet)					
	Identified resources			Undiscovered recoverable resources				Identified resources (3)		Undiscovered recoverable resources			
Petroleum Region	Measured reserves	Indicated reserves	Inferred reserves	Low [1] F_{95}	High [1] F_5	Mean	Standard deviation	Measured reserves	Inferred reserves	Low [1] F_{95}	High [1] F_5	Mean	Standard deviation
Onshore													
1. Alaska	8.7	0	5.0	2.5	14.6	6.9	4.3	30.0	4.4	19.8	62.3	36.6	14.0
2. Pacific Coast	3.2	1.6	1.2	2.1	7.9	4.4	2.0	4.2	3.8	8.2	24.9	14.7	5.5
3. Colorado Plateau and Basin and Range	0.3	Negl.	1.0	6.9	25.9	14.2	8.0	11.4	4.5	53.5	142.4	90.1	29.7
4. Rocky Mountains and northern Great Plains	1.1	0.2	2.9	6.0	14.0	9.4	2.6	7.1	5.5	29.6	69.0	45.7	12.6
5. West Texas and eastern New Mexico	5.4	1.3	4.0	2.7	9.4	5.4	2.2	15.9	18.1	22.4	75.2	42.8	17.8
6. Gulf Coast	3.8	0.2	5.3	3.6	12.6	7.1	2.8	45.3	74.3	56.5	249.1	124.4	63.6
7. Mid-continent	1.5	0.2	1.4	2.3	7.7	4.4	1.8	32.0	18.8	22.9	80.8	44.5	18.4
8. Michigan Basin	0.2	Negl.	0.8	0.3	2.7	1.1	0.8	1.1	1.1	1.8	10.9	5.1	3.1
9. Eastern Interior	0.2	Negl.	0.1	0.3	1.9	0.9	0.6	Negl.	0.1	1.2	5.0	2.7	1.3
10. Appalachians	0.2	Negl.	0.1	0.1	1.5	0.6	0.5	6.2	5.9	6.4	45.8	20.1	13.2
11. Atlantic Coast	Negl.	0	0.1	0.1	0.8	0.3	0.3	Negl.	Negl.	Negl.	0.4	0.1	0.3
Entire onshore	24.7	3.6	21.8	41.7	71.0	54.6	10.5	153.3	136.5	322.5	567.9	426.8	78.5
Offshore--Shelf													
1A Alaska[2]	0.2	0	0.1	3.8	22.0	10.8	6.4	2.0	1.2	28.5	99.0	57.4	23.6
2A Pacific Coast	1.2	0	0.5	0.6	3.0	1.5	0.8	1.9	0.4	0.9	5.2	2.5	1.5
6A Gulf of Mexico	1.7	Negl.	1.0	1.3	7.9	4.0	2.1	34.4	39.5	22.0	79.2	45.3	18.5
11A Atlantic Coast	0	0	0	0	3.9	1.3	1.4	0	0	2.2	17.9	8.2	5.0
Entire shelf	3.1	Negl.	1.5	9.2	30.2	17.6	6.9	38.2	41.0	72.0	166.8	113.4	30.4
Offshore--Slope													
1A Alaska[2]	0	0	0	0	52.0	1.4	2.3	0	0	0	20.2	7.2	12.3
2A Pacific Coast	0	0	0	0.6	6.0	2.4	2.0	0	0	1.9	10.2	4.4	3.0
6A Gulf of Mexico	No data	0	No data	0.9	5.2	2.5	1.4	No data	No data	11.1	51.8	26.5	13.8
11A Atlantic Coast	0	0	0	0	10.7	4.1	3.6	0	0	5.1	34.5	15.4	9.6
Entire slope	0	0	0	4.2	19.2	10.4	4.9	0	0	28.6	87.1	53.6	21.0
Offshore--combined shelf and slope													
1A Alaska[2]	0.2	0	0.1	4.6	24.2	12.2	6.8	2.0	1.2	33.3	109.6	64.6	26.6
2A Pacific Coast	1.2	0	0.5	1.7	7.9	3.8	2.2	1.9	0.4	3.7	13.6	6.9	3.3
6A Gulf of Mexico	1.7	Negl.	1.0	3.1	11.1	6.5	2.5	34.4	39.5	41.7	114.2	71.8	23.1
11A Atlantic Coast	0	0	0	1.1	12.9	5.4	3.9	0	0	9.2	42.8	23.7	10.8
Entire slope	3.1	Negl.	1.5	16.9	43.5	28.0	8.5	38.2	41.0	117.4	230.6	167.0	37.0
Combined onshore and offshore													
Entire United States	27.8	3.6	23.4	64.3	105.1	82.6	13.4	191.5	177.5	474.6	739.3	593.8	86.8

(1) F_{95} denotes the 95th fractile; the probability of more than the amount F_{95} is 95% F_5 is defined similarly.
(2) Includes quantities considered recoverable only if technology permits their exploitation beneath Artic pack ice—a condition not yet met.
(3) Does not include gas in storage.

Source: U.S. Geological Survey, Circular 860

BASIC PETROLEUM DATA BOOK

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U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1947	275	1,434,351	119	662,513	3,086	12,509,723	3,480	14,606,587
1948	366	1,791,437	135	899,514	3,795	16,048,313	4,296	18,739,264
1949	364	1,813,650	142	973,124	3,943	15,372,983	4,449	18,159,757
1950	462	2,345,714	130	800,276	4,698	18,972,164	5,290	22,118,254
1951	515	2,784,458	169	1,046,805	5,505	24,116,951	6,189	27,948,214
1952	556	3,122,962	185	1,310,227	5,957	28,068,745	6,698	32,501,934
1953	581	3,288,855	193	1,244,946	6,151	29,321,262	6,925	33,855,063
1954	639	3,577,418	263	1,761,483	6,478	30,149,120	7,380	35,488,021
1955	659	3,667,073	260	1,664,789	7,186	33,654,112	8,105	38,985,974
1956	626	3,690,270	240	1,762,688	7,874	36,913,273	8,742	42,366,231
1957	590	3,403,283	282	2,099,922	7,142	33,600,397	8,014	39,103,602
1958	518	2,963,220	268	2,077,923	6,164	29,161,083	6,950	34,202,226
1959	466	2,710,157	306	2,113,934	6,259	30,635,114	7,031	35,459,205
1960	448	2,614,001	297	2,136,721	6,575	31,130,339	7,320	35,881,061

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1947	982	4,280,672	396	1,895,491	5,397	20,217,185	6,775	26,393,348
1948	1,098	4,883,179	365	2,306,271	6,550	25,561,647	8,013	32,751,097
1949	1,406	5,950,460	424	2,409,230	7,228	26,438,601	9,058	34,798,291
1950	1,583	6,861,758	431	2,356,021	8,292	30,957,394	10,306	40,175,173
1951	1,763	8,125,473	454	2,495,592	9,539	38,722,629	11,756	49,343,694
1952	1,776	8,490,701	559	3,393,813	10,090	43,730,875	12,425	55,615,389
1953	1,981	9,431,700	699	3,952,118	10,633	47,279,793	13,313	60,663,611
1954	1,985	9,409,404	726	4,399,196	10,389	45,791,944	13,100	59,600,544
1955	2,236	10,774,397	874	5,212,258	11,832	53,219,667	14,942	69,206,322
1956	2,267	11,110,534	822	5,179,111	13,118	58,047,439	16,207	74,337,084
1957	1,945	9,794,182	865	5,966,961	11,904	53,420,086	14,714	69,181,229
1958	1,745	8,712,007	822	5,472,151	10,632	47,299,753	13,199	61,483,911
1959	1,702	8,544,972	912	6,031,180	10,577	48,676,369	13,191	63,252,521
1960	1,321	6,829,122	868	5,466,439	9,515	43,535,075	11,704	55,830,636

Source: American Association of Petroleum Geologists.

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1961	429	2,304,472	316	2,373,465	6,164	30,733,007	6,909	35,410,944
1962	470	2,670,875	317	2,380,930	6,007	29,832,533	6,794	34,884,338
1963	529	2,629,952	240	1,550,207	5,801	29,371,086	6,570	33,551,245
1964	440	2,623,873	252	1,933,484	5,931	30,028,416	6,623	34,585,773
1965	397	2,279,545	234	1,849,272	5,544	27,933,474	6,175	32,062,291
1966	403	2,437,921	232	1,888,322	5,523	27,052,375	6,158	31,378,618
1967	371	2,255,638	189	1,496,083	4,700	24,255,198	5,260	28,006,919
1968	321	2,012,067	127	1,046,358	4,757	27,190,387	5,205	30,248,812
1969	344	2,237,551	191	1,669,263	5,421	31,511,973	5,956	35,418,787
1970	309	2,063,696	184	1,523,884	4,576	26,696,655	5,069	30,284,235
1971	232	1,518,573	202	1,552,887	4,028	23,364,530	4,462	26,435,990
1972	294	1,925,612	272	2,101,876	4,520	26,941,940	5,086	30,969,428
1973	285	1,785,985	416	2,957,367	4,288	25,598,586	4,989	30,341,938
1974	358	2,265,489	447	3,027,439	4,847	28,298,383	5,652	33,591,311
1975	429	2,838,904	447	3,377,029	5,228	30,843,001	6,104	37,058,934

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1961	1,157	5,899,555	813	5,249,616	9,022	38,054,853	10,992	49,204,024
1962	1,211	6,205,402	771	5,187,452	8,815	44,103,834	10,797	55,496,688
1963	1,314	6,409,095	664	4,229,802	8,686	42,846,565	10,664	53,485,462
1964	1,219	6,715,355	577	4,203,534	8,951	42,655,665	10,747	53,574,554
1965	946	5,365,758	515	3,757,004	8,005	45,319,365	9,466	54,442,127
1966	1,030	5,880,029	578	4,881,198	8,705	44,461,934	10,313	55,223,161
1967	986	5,677,675	532	3,978,526	7,360	38,182,439	8,878	47,838,640
1968	954	5,642,235	486	3,740,781	7,439	41,575,022	8,879	50,958,038
1969	1,084	6,563,032	616	4,984,622	8,001	45,918,308	9,701	57,465,962
1970	790	5,055,266	481	3,674,557	6,422	36,523,545	7,693	45,253,368
1971	651	3,712,165	437	3,328,365	5,834	33,347,439	6,922	40,387,969
1972	684	4,001,526	601	4,592,273	6,254	36,449,999	7,539	45,043,798
1973	619	3,853,751	900	6,170,512	5,947	34,752,643	7,466	44,776,906
1974	814	4,852,259	1,195	7,673,663	6,610	37,735,822	8,619	50,261,744
1975	972	5,699,225	1,171	7,998,994	7,071	40,148,084	9,214	53,846,303

Source: 1961-1966 — American Association of Petroleum Geologists.
1967-1975 — American Petroleum Institute.

Section III
Table 1b

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	439	2,902,385	547	3,824,853	4,854	28,297,390	5,840	35,024,628
1977	481	3,000,357	523	3,856,438	5,097	30,602,662	6,101	37,459,457
1978	445	2,894,938	538	3,791,833	5,522	33,756,358	6,505	40,443,129
1979	491	3,310,132	671	4,705,683	5,251	32,500,381	6,413	40,516,196
1980	654	4,201,443	686	4,960,108	5,694	35,012,527	7,034	44,174,078
1981	744	5,218,215	679	5,341,819	6,629	42,296,839	8,052	52,856,873
1982	755	5,338,055	645	5,033,648	6,512	41,880,499	7,912	52,252,202
1983	560	3,229,411	578	3,454,978	5,439	30,920,121	6,487	37,604,510
1984	520	3,596,813	360	2,542,967	5,207	31,757,410	6,087	37,897,190

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	1,047	6,139,088	1,402	9,182,955	6,785	37,490,363	9,234	52,812,406
1977	1,209	7,053,644	1,477	9,674,848	7,275	40,926,382	9,961	57,654,874
1978	1,125	6,793,419	1,603	10,816,234	7,949	45,625,092	10,677	63,234,745
1979	1,240	7,468,543	1,784	11,722,138	7,460	43,226,507	10,484	62,467,188
1980	1,605	9,288,831	1,969	13,732,359	8,342	46,927,130	11,916	69,948,320
1981	2,219	13,267,311	2,366	15,729,426	10,583	60,090,485	15,168	89,087,222
1982	2,584	14,965,772	2,275	16,002,699	11,623	64,723,238	16,482	95,691,709
1983	2,092	10,698,824	1,888	11,572,989	9,907	49,930,362	13,887	72,202,175
1984	2,421	12,067,375	1,500	9,166,316	11,156	55,268,103	15,077	76,501,794

Source: American Petroleum Institute.

Section III
Table 2

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS(1)

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total	Footage
1947	17,017		2,909		4,141		24,067	87,667,652
1948	21,487		2,532		5,476		29,495	104,640,903
1949	20,636		2,463		5,499		28,598	103,204,709
1950	22,847		2,412		6,465		31,724	119,112,827
1951	21,690		2,576		7,114		31,380	122,987,306
1952	21,690		2,696		7,528		31,914	131,574,611
1953	23,781		3,107		7,816		34,704	138,175,389
1954	27,788		3,251		8,779		39,818	159,385,456
1955	29,331		2,739		8,910		40,980	157,063,678
1956	28,463		3,721		8,720		40,904	161,564,916
1957	26,067		3,755		9,079		38,901	152,719,310
1958	22,833		3,981		8,411		35,225	136,740,181
1959	24,098		4,117		8,688		36,903	145,978,895
1960	19,865		4,390		8,059		32,314	134,872,036

TOTAL WELLS

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total Wells	Footage	Service Strat & Core	Grand Total
1947	17,999		3,305		9,538		30,842	114,061,000	2,280	33,122
1948	22,585		2,897		12,026		37,508	137,392,000	2,270	39,778
1949	22,042		2,887		12,727		37,656	138,003,000	1,382	39,038
1950	24,430		2,843		14,757		42,030	159,288,000	1,249	43,279
1951	23,453		3,030		16,653		43,136	172,331,000	1,380	44,516
1952	23,466		3,255		17,618		44,339	187,190,000	1,482	45,821
1953	25,762		3,806		18,449		48,017	198,839,000	1,262	49,279
1954	29,773		3,974		19,168		52,915	218,986,000	1,012	53,927
1955	31,567		3,608		20,742		55,917	226,270,000	760	56,677
1956	30,737		4,543		21,797		57,077	233,902,000	1,049	58,126
1957	28,012		4,620		20,976		53,608	221,900,539	1,061	53,838
1958	24,578		4,803		19,043		48,424	198,224,092	1,615	50,039
1959	25,800		5,029		19,265		50,094	209,231,416	1,670	51,764
1960	21,186		5,258		17,574		44,018	190,702,672	2,733	46,751

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(1) The number of development wells was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(2) Footage not available prior to 1966.

Source: American Association of Petroleum Geologists and Oil and Gas Journal.

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS[1]

	Oil Wells	Footage[2]	Gas Wells	Footage[2]	Dry Holes	Footage[2]	Total	Footage
1961	19,944		4,851		8,084		32,879	142,912,090
1962	20,038		5,077		7,867		32,982	143,061,953
1963	18,974		4,087		7,661		30,722	130,871,538
1964	19,401		4,278		8,537		32,216	136,347,316
1965	17,815		4,209		8,020		30,044	126,984,888
1966	15,417	59,562,661	3,589	19,562,196	7,065	28,097,191	26,071	107,222,048
1967	14,343	52,955,743	3,127	17,601,654	5,886	22,960,426	23,356	93,517,823
1968	13,377	53,874,620	2,970	16,975,492	5,373	23,162,297	21,720	94,012,409
1969	13,284	55,018,970	3,467	19,177,390	5,735	25,445,537	22,486	99,641,897
1970	12,230	52,036,521	3,359	19,214,724	4,838	22,761,125	20,427	94,012,370
1971	11,207	44,839,397	3,393	19,295,191	4,329	19,716,662	18,929	83,851,250
1972	10,622	44,532,369	4,327	22,172,910	4,803	22,853,354	19,752	89,558,633
1973	9,283	40,788,198	5,485	29,429,819	4,358	21,396,529	19,126	91,614,546
1974	11,970	45,356,725	6,045	31,312,819	5,064	23,620,119	23,079	100,289,663
1975	15,436	58,809,761	6,409	33,928,337	6,176	27,849,831	28,021	120,587,929

TOTAL WELLS

	Oil Wells	Footage[2]	Gas Wells	Footage[2]	Dry Holes	Footage[2]	Total Wells	Footage	Service Strat & Core	Grand Total
1961	21,101		5,664		17,106		43,871	192,116,114	3,091	46,962
1962	21,249		5,848		16,682		43,779	198,558,641	2,400	46,179
1963	20,288		4,751		16,347		41,386	184,357,000	2,267	43,653
1964	20,620		4,855		17,488		42,963	189,921,870	2,273	45,236
1965	18,761		4,724		16,025		39,501	181,427,015	1,922	41,423
1966	16,447	65,442,690	4,167	24,443,394	15,770	72,559,125	36,384	162,445,209	2,152	38,536
1967	15,329	58,633,418	3,659	21,580,180	13,246	61,142,865	32,234	141,356,463	1,584	33,818
1968	14,331	59,516,855	3,456	20,716,273	12,812	64,737,319	30,599	144,970,447	2,315	32,914
1969	14,368	61,582,002	4,083	24,162,012	13,736	71,363,845	32,187	157,107,859	1,866	34,053
1970	13,020	57,091,787	3,840	22,889,281	11,260	59,284,670	28,120	139,265,738	1,347	29,467
1971	11,858	45,551,562	3,830	22,623,556	10,163	53,064,101	25,851	124,239,219	1,449	27,300
1972	11,306	48,533,895	4,928	26,765,183	11,057	59,303,353	27,291	134,602,431	1,464	28,755
1973	9,902	44,641,949	6,385	35,600,331	10,305	56,149,172	26,592	136,391,452	1,010	27,602
1974	12,784	50,208,984	7,240	38,986,482	11,674	61,355,941	31,698	150,551,407	1,195	32,893
1975	16,408	64,508,986	7,580	41,927,331	13,247	67,997,915	37,235	174,434,232	1,862	39,097

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(1) The number of development wells for 1961-1965 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(2) Footage not available prior to 1966.

Source: 1961-1965 — American Association of Petroleum Geologists and Oil and Gas Journal.
1966-1975 -- American Petroleum Institute.

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	16,012	60,563,685	7,683	38,323,628	6,836	30,080,296	30,531	128,967,609
1977	17,703	68,254,038	9,901	49,863,196	7,417	35,075,801	35,021	153,193,035
1978	16,650	65,740,465	11,461	59,379,429	8,269	38,755,228	36,380	163,875,122
1979	18,143	71,167,437	12,897	65,984,223	8,292	39,039,853	39,332	176,191,513
1980	25,421	100,249,736	13,761	71,310,386	9,747	42,952,537	48,929	214,512,659
1981	35,452	137,401,750	15,528	81,149,957	12,390	53,767,591	63,370	272,319,298
1982	37,717	144,418,151	16,677	91,206,023	14,919	64,677,088	69,313	300,301,262
1983	35,115	125,208,074	13,740	71,653,067	13,587	56,696,475	62,442	253,557,616
1984	38,674	141,081,066	14,205	72,952,477	14,076	57,749,509	66,955	271,783,052

TOTAL WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total Wells	Footage	Service Strat & Core	Grand Total
1976	17,059	66,702,773	9,085	47,506,583	13,621	67,570,659	39,765	181,780,015	1,690	41,455
1977	18,912	75,307,682	11,378	59,538,044	14,692	76,002,183	44,982	210,847,909	1,497	46,479
1978	17,775	75,533,884	13,064	70,195,663	16,218	84,380,320	47,057	227,109,867	1,465	48,513
1979	19,383	78,635,980	14,681	77,756,361	15,752	82,266,360	49,816	238,658,701	1,447	51,263
1980	27,026	109,538,567	15,730	85,042,745	18,089	89,879,667	60,845	284,460,979	1,617	62,462
1981	37,671	150,669,061	17,894	96,879,383	22,973	113,858,076	78,538	361,406,520	1,999	80,537
1982	40,301	159,383,923	18,952	107,208,722	26,542	129,400,326	85,795	395,992,971	2,306	88,101
1983	37,207	135,906,898	15,628	83,226,056	23,494	106,626,837	76,329	325.759,791	2,213	78,542
1984	41,095	153,148,441	15,705	82,118,793	25,232	113,017,612	82,032	348,284,846	2,151	84,183

Source: American Petroleum Institute.

Section III
Table 3

U.S. WELLS DRILLED BY DEPTH INTERVAL

Year	Depth Interval (Feet) Under 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-over	Total Wells Drilled
1959	34,867	11,719	2,757	220	(1)	49,563
1960	30,575	10,485	2,835	238	(1)	44,133
1961	30,289	10,658	2,789	252	(1)	43,988
1962	29,496	11,103	3,062	283	(1)	43,944
1963	28,524	10,342	2,723	264	(1)	41,853
1964	29,913	10,649	2,604	320	(1)	43,486
1965	25,697	11,081	2,491	327	(1)	39,596
1966	22,178	9,703	2,251	355	34	34,521
1967	20,359	8,668	2,130	343	38	31,538
1968	17,999	8,958	2,264	308	47	29,576
1969	17,067	9,690	2,378	300	46	29,481
1970	15,930	8,694	2,173	325	55	27,177
1971	14,776	7,888	1,998	324	54	25,040
1972	15,352	8,349	2,246	445	51	26,443
1973	14,884	8,755	2,166	379	60	26,244
1974	19,369	9,452	2,253	341	66	31,481
1975	22,704	11,254	2,588	365	49	36,960
1976	24,260	11,485	2,821	324	51	38,941
1977	26,800	13,339	3,215	422	50	43,826
1978	28,545	13,792	3,691	578	49	46,655
1979	29,831	14,114	3,936	591	51	48,523
1980	38,889	16,934	4,310	647	65	60,845
1981	51,078	21,533	5,030	807	90	78,538
1982	56,201	22,283	6,095	1,097	124	85,800
1983	52,610	18,391	4,373	851	104	76,329
1984	55,783	20,738	4,840	628	43	82,032

(1) Included in 15,000-19,999 foot interval

Source: 1959-1979, API, Joint Association Survey
1980-present, API, Quarterly Review of Drilling Statistics

Section III
Table 4

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(CREW MONTHS)

Year	SEISMIC Company	SEISMIC Contractor	SEISMIC Total	GRAVITY-MAGNETIC-OTHER Company	GRAVITY-MAGNETIC-OTHER Contractor	GRAVITY-MAGNETIC-OTHER Total	ALL METHODS Company	ALL METHODS Contractor	ALL METHODS Total
1951	(1)	(1)	6,537	(1)	(1)	802	(1)	(1)	7,339
1952	(1)	(1)	7,958	(1)	(1)	965	(1)	(1)	8,923
1953	(1)	(1)	7,666	(1)	(1)	1,006	(1)	(1)	8,672
1954	(1)	(1)	6,863	(1)	(1)	1,106	(1)	(1)	7,969
1955	2,791	4,299	7,090	419	655	1,150(2)	3,210	4,954	8,240(2)
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174
1964	1,360	2,742	4,102	76	228	309(4)	1,436	2,970	4,411(4)
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471
1966	1,496	2,176	3,672	57	88	163(5)	1,553	2,264	3,835(5)
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496
1968	1,138	2,130	3,268	15	104	122(6)	1,153	2,234	3,390(6)
1969	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472
1970	781	1,559	2,340	12	169	181	793	1,728	2,521
1971	656	1,999	2,655	10	97	107	666	2,096	2,762
1972	622	2,394	3,016	6	118	124	628	2,512	3,140
1973	607	2,392	2,999	18	56	74	625	2,448	3,073
1974	540	3,122	3,662	(1)	(1)	230	(1)	(1)	3,892

(1) Company-contractor data are not available.
(2) Includes 76 magnetometer crew months not allocated to either company or contractor.
(3) Percentages do not equal 100 percent due to unallocated crew months included in total.
(4) Includes 5 other crew months not allocated to either company or contractor.
(5) Includes 18 magnetometer crew months not allocated to either company or contractor.
(6) Includes 3 magnetometer crew months not allocated to either company or contractor.

Source: Society of Exploration Geophysicists, Annual Reports.

Section III
Table 4a

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(CREW MONTHS)

Year	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS		
	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total
1975	543	2,860	3,416(2)	(1)	(1)	271	(1)	(1)	3,687
1976	484	2,646	3,140(2)	(1)	(1)	245	(1)	(1)	3,385
1977	499	2,564	3,063(2)	(1)	(1)	120	(1)	(1)	3,183
1978	478	3,670	4,148(2)	(1)	(1)	196	(1)	(1)	4,344
1979	829	3,571	4,400(2)	(1)	(1)	199	(1)	(1)	4,599
1980	1,292	3,669	4,962	(1)	(1)	311	(1)	(1)	5,273
1981	1,038	4,839	5,877	(1)	(1)	382	(1)	(1)	6,259
1982	653	5,023	5,676	(1)	(1)	492	(1)	(1)	6,168
1983	588	4,356	4,944	(1)	(1)	334	(1)	(1)	5,278

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(1) Company-contractor data are not available.
(2) Total includes government and university activity unallocated to company-contractor totals.

Source: Society of Exploration Geophysicists, Annual Reports.

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew Months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total Free World
1954	7,969	1,652	1,210	10,831	(1)	(1)	(1)	(1)	12,424
1955	8,240	1,599	1,148	10,987	(1)	(1)	(1)	(1)	13,430
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	13,627
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	13,655
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	12,590
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	11,481
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	10,526
1961	5,024	664	995	6,683	1,314	1,472	213	521	10,203
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	9,199
1963	4,174	745	1,153	6,072	1,094	978	233	968	9,345
1964	4,411	673	1,133	6,217	1,035	766	283	909	9,210
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	9,689
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	9,040
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	9,055
1968	3,390	970	1,012	5,372	711	679	296	708	7,766
1969	3,472	960	898	5,330	676	864	460	935	8,265
1970	2,521	806	1,052	4,379	725	802	286	1,009	7,201
1971	2,762	334	1,105	4,201	738	915	254	1,578	7,686
1972	3,140	503	1,146	4,789	692	938	239	957	7,615
1973	3,073	585	1,236	4,894	627	798	294	950	7,563
1974	3,892	487	1,572	5,951	702	835	389	1,008	8,897(2)
1975	3,687	597(3)	790(3)	5,074	679(3)	676(3)	306(3)	440(3)	7,185(2)
1976	3,385	421(3)	559(3)	4,365	592(3)	674(3)	351(3)	338(3)	6,353(2)
1977	3,183	766	480(4)	4,429	646	806	309	254	6,497(2)
1978	4,148	782	980	5,910	535	613	330	280	7,668(2)
1979	4,400	761	485	5,646	647	674	345	372	7,746(2)

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(1) Area total not available
(2) Includes crew months allocated to international waters and other areas not specifically identified, 1974-12, 1975-10, 1976-33, 1977-53, 1978-100, 1979-62.
(3) Seismic activity only
(4) Only partial data for Mexico included

Source: Society of Exploration Geophysicists, Annual Reports

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total Free World
1980	4,962	695	645	6,302	569	688	346	520	8,565(2)
1981	5,877	584	1,261	7,722	733	973	452	436	10,706(2)
1982	5,576	527	808	7,011	798	755	480	752	9,821(2)
1983	4,944	658	703	6,305	744	660	359	700	8,789(2)

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(2) Includes crew months allocated to international waters and other areas not specifically identified.

Source: Society of Exploration Geophysicists, Annual Reports

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
1947	3	7	11	52	129	48	250	73	3,325	2.20
1948	2	2	9	59	241	33	346	72	4,087	1.76
1949	9	4	9	65	172	78	337	87	4,238	2.05
1950	3	10	15	69	283	56	436	97	5,149	1.88
1951	1	1	13	71	345	61	492	86	6,044	1.42
1952	2	2	11	70	361	90	536	85	6,440	1.32
1953	1	6	17	88	283	134	529	112	6,634	1.69
1954	2	3	12	82	308	179	586	99	7,033	1.41
1955	2	5	13	95	329	178	622	115	7,743	1.49
1956	0	2	2	92	333	124	553	96	8,436	1.14
1957	1	1	7	63	339	186	597	72	7,556	0.95
1958	3	2	16	82	229	157	489	103	6,618	1.56
1959	0	4	3	52	255	110	424	59	7,031	0.84
1960	1	3	5	35	283	143	470	44	7,320	0.60
1961	0	1	4	47	246	68	366	52	6,909	0.75
1962	0	1	3	44	264	78	390	48	6,794	0.71
1963	2	1	7	41	341	100	492	51	6,570	0.78
1964	0	3	9	48	248	109	417	60	6,623	0.91
1965	2	3	5	35	268	63	376	45	6,175	0.73
1966	3	1	3	40	336	6	389	47	6,158	0.76
1967	1	4	2	39	278	24	348	46	5,271	0.87
1968	3	5	1	38	210	63	320	47	5,205	0.90
1969	2	3	2	41	245	28	321	48	5,956	0.81
TOTAL	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields......................Over 50 million barrels
B Fields........................25-50 million barrels
C Fields........................10-25 million barrels
D Fields.........................1-10 million barrels
E Fields..................Less than 1 million barrels
F Fields..................Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 6a

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total[1]			
	(SIGNIFICANT)									
Cumulative total 1947-1969	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15
1970	11	1	5	43	149	18	227	60	5,069	1.18
1971	2	0	2	23	149	8	184	27	4,463	0.60
1972	1	1	1	49	187	3	242	52	5,086	1.02
1973	0	2	3	23	198	0	226	28	4,989	0.56
1974	0	0	0	36	254	0	290	36	5,652	0.64
1975	0	2	6	43	320	0	371	51	6,104	0.84
1976	1	1	4	39	383	0	428	45	5,840	0.77
1977	0	2	1	38	396	0	437	41	6,101	0.67
TOTAL	58	83	201	1,642	8,362	2,145	12,491	1,984	186,619	1.06

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields	Over 50 million barrels
B Fields	25-50 million barrels
C Fields	10-25 million barrels
D Fields	1-10 million barrels
E Fields	Less than 1 million barrels
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total[1]			
	(SIGNIFICANT)									
1947	5	5	4	30	35	19	98	44	3,325	1.32
1948	3	3	7	33	35	19	100	46	4,087	1.13
1949	8	7	8	34	43	12	112	57	4,238	1.34
1950	4	4	8	28	44	19	107	44	5,149	0.85
1951	10	4	10	41	57	16	138	65	6,044	1.08
1952	10	7	7	44	65	15	148	68	6,440	1.06
1953	3	3	6	40	89	18	159	52	6,634	0.78
1954	4	1	12	51	104	39	211	68	7,033	0.97
1955	2	3	11	33	107	43	199	49	7,743	0.63
1956	2	4	5	52	92	26	181	63	8,436	0.75
1957	9	5	15	70	105	30	234	99	7,556	1.31
1958	3	6	9	55	143	25	241	73	6,618	1.10
1959	4	1	6	51	135	28	225	62	7,031	0.88
1960	6	2	9	63	135	22	237	80	7,320	1.09
1961	4	3	4	35	156	40	242	46	6,909	0.67
1962	3	4	11	61	161	52	292	79	6,794	1.16
1963	4	1	7	38	124	41	215	50	6,570	0.76
1964	4	1	11	37	136	37	226	53	6,623	0.80
1965	1	3	10	38	142	30	224	52	6,175	0.84
1966	1	3	7	36	142	12	201	47	6,158	0.76
1967	4	5	6	26	111	12	164	41	5,271	0.78
1968	1	5	7	27	83	14	137	40	5,205	0.77
1969	3	2	4	35	116	14	174	44	5,956	0.74
TOTAL	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92

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(1) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields......................Over 300 billion cubic feet
B Fields......................150-300 billion cubic feet
C Fields.......................60-150 billion cubic feet
D Fields..........................6-60 billion cubic feet
E Fields............................6 billion cubic feet
F Fields.....................Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B (SIGNIFICANT)	C (SIGNIFICANT)	D	E	F	Total(1)			
Cumulative total 1947-1969	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92
1970	5	4	3	25	79	14	130	37	5,069	0.73
1971	2	3	3	38	102	12	160	46	4,463	1.03
1972	3	2	6	47	187	0	245	58	5,086	1.14
1973	2	6	10	57	284	0	359	75	4,989	1.50
1974	0	2	6	51	329	0	388	59	5,652	1.04
1975	3	0	1	64	336	0	404	68	6,104	1.11
1976	2	1	7	53	443	0	506	63	5,840	1.08
1977	3	0	3	75	381	0	462	81	6,101	1.33
TOTAL	118	100	223	1,368	4,501	609	6,919	1,809	186,619	0.97

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields	Over 300 billion cubic feet
B Fields	150-300 billion cubic feet
C Fields	60-150 billion cubic feet
D Fields	6-60 billion cubic feet
E Fields	6 billion cubic feet
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL AND GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Oil & Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
1947	8	12	15	82	164	67	348	117	3,325	3.52
1948	5	5	16	92	276	52	446	118	4,087	2.89
1949	17	11	17	99	215	90	449	144	4,238	3.40
1950	7	14	23	97	327	75	543	141	5,149	2.74
1951	11	5	23	112	402	77	630	151	6,044	2.50
1952	12	9	18	114	426	105	684	153	6,440	2.38
1953	4	9	23	128	372	152	688	164	6,634	2.47
1954	6	4	24	133	412	218	797	167	7,033	2.37
1955	4	8	24	128	436	221	821	164	7,743	2.12
1956	2	6	7	144	425	150	734	159	8,436	1.88
1957	10	6	22	133	444	216	831	171	7,556	2.26
1958	6	8	25	137	372	182	730	176	6,618	2.66
1959	4	5	9	103	390	138	649	121	7,031	1.72
1960	7	5	14	98	418	165	707	124	7,320	1.69
1961	4	4	8	82	402	108	608	98	6,909	1.42
1962	3	5	14	105	425	130	682	127	6,794	1.87
1963	6	2	14	79	465	141	707	101	6,570	1.54
1964	4	4	20	85	384	146	643	113	6,623	1.71
1965	3	6	15	73	410	93	600	97	6,175	1.57
1966	4	4	10	76	478	18	590	94	6,158	1.53
1967	5	9	8	65	389	36	512	87	5,271	1.65
1968	4	10	8	65	293	77	457	87	5,205	1.67
1969	5	5	6	76	361	42	495	92	5,956	1.54
TOTAL	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07

(1) Differs from year-of-discovery total because of consolidations.

A Fields....................Over 50 million barrels or over 300 billion cubic feet
B Fields.......................25-50 million barrels or 150-300 billion cubic feet
C Fields........................10-25 million barrels or 60-150 billion cubic feet
D Fields..........................1-10 million barrels or 6-60 billion cubic feet
E Fields.............Less than 1 million barrels or less than 6 billion cubic feet
F Fields..Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8a

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL AND GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Oil & Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total[1]			
	(SIGNIFICANT)									
Cumulative total 1947-1969	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07
1970	16	5	8	68	228	32	357	97	5,069	1.91
1971	4	3	5	61	251	20	344	73	4,463	1.64
1972	4	3	7	96	374	3	487	110	5,086	2.16
1973	2	8	13	80	482	0	585	103	4,989	2.06
1974	0	2	6	87	583	0	678	95	5,652	1.68
1975	3	2	7	107	656	0	775	119	6,104	1.95
1976	3	2	11	92	826	0	934	108	5,840	1.85
1977	3	2	4	113	777	0	899	122	6,101	2.00
TOTAL	176	183	424	3,010	12,863	2,754	19,410	3,793	186,619	2.03

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(1) Differs from year-of-discovery total because of consolidations.

A Fields......................Over 50 million barrels or over 300 billion cubic feet
B Fields........................25-50 million barrels or 150-300 billion cubic feet
C Fields.........................10-25 million barrels or 60-150 billion cubic feet
D Fields............................1-10 million barrels or 6-60 billion cubic feet
E Fields..............Less than 1 million barrels or less than 6 billion cubic feet
F Fields..Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 9

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,136	94,331,708	1,232,591,000	3,753	49,037	13.07
1960	20,933	81,168,838	914,306,819	3,878	43,678	11.26
1961	20,868	79,736,609	971,144,061	3,821	46,537	12.18
1962	20,060	83,168,468	1,041,452,536	4,146	51,917	12.52
1963	20,306	77,410,438	940,225,250	3,812	46,303	12.15
1964	20,535	76,376,645	898,606,894	3,719	43,760	11.77
1965	18,370	74,627,569	873,769,045	4,062	47,565	11.71
1966	15,312	60,104,252	745,319,549	3,925	48,676	12.40
1967	14,196	53,675,969	692,118,920	3,781	48,755	12.89
1968	13,010	51,828,631	699,182,337	3,984	53,742	13.49
1969	12,330	52,726,293	790,280,178	4,276	64,094	14.99
1970	12,014	51,734,000	806,429,000	4,306	67,124	15.59
1971	11,096	45,672,234	731,152,743	4,116	65,893	16.01
1972	10,421	45,126,022	792,435,249	4,330	76,042	17.56
1973	9,407	41,980,947	825,029,716	4,462	87,704	19.65
1974	12,820	49,662,328	1,270,731,107	3,874	99,121	25.59

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	4,974	26,688,743	460,307,000	5,366	92,543	17.25
1960	5,175	28,035,381	487,477,504	5,417	94,199	17.39
1961	5,588	29,454,151	489,799,166	5,271	87,652	16.63
1962	5,743	30,171,311	511,755,682	5,254	89,109	16.96
1963	4,689	24,626,510	392,325,056	5,252	83,669	15.93
1964	4,749	25,991,892	447,248,084	5,473	94,177	17.21
1965	4,654	25,113,447	418,669,590	5,396	89,959	16.67
1966	3,914	23,217,268	446,177,620	5,932	113,995	19.22
1967	3,390	19,821,779	401,857,713	5,847	118,542	20.27
1968	3,145	18,536,140	387,216,275	5,894	123,121	20.89
1969	3,705	21,237,340	439,917,416	5,732	118,736	20.71
1970	3,651	21,044,000	478,705,000	5,764	131,116	22.75
1971	3,494	20,086,735	471,309,152	5,749	134,891	23.46
1972	4,856	26,424,009	626,559,655	5,442	129,028	23.71
1973	6,243	34,368,694	843,960,359	5,505	135,185	24.56
1974	6,540	35,552,242	1,114,933,600	5,436	170,479	31.36

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	18,977	79,735,011	775,839,000	4,202	40,883	9.73
1960	17,427	71,568,350	716,918,499	4,107	41,138	10.02
1961	16,926	71,393,988	706,003,668	4,218	41,711	9.89
1962	16,381	72,462,036	751,889,544	4,424	45,900	10.38
1963	16,072	71,272,882	679,103,111	4,435	42,254	9.53
1964	17,207	76,197,567	723,760,548	4,428	42,062	9.50
1965	15,535	71,075,468	681,175,250	4,575	43,848	9.58
1966	14,168	62,730,401	638,085,605	4,428	45,037	10.17
1967	12,587	57,590,338	591,049,820	4,575	46,957	10.26
1968	12,099	60,145,366	665,359,161	4,971	54,993	11.06
1969	12,255	63,091,716	708,336,269	5,148	57,800	11.23
1970	10,454	53,874,000	695,037,000	5,153	66,485	12.90
1971	9,566	49,877,591	646,412,548	5,214	67,574	12.96
1972	10,173	53,984,394	762,721,534	5,307	74,975	14.13
1973	9,713	51,957,041	827,228,251	5,349	85,167	15.92
1974	11,291	58,327,468	1,301,354,034	5,166	115,256	22.31

ONSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	49,197	198,056,000	2,447,219,287	4,026	49,743	12.36
1955(1)	55,517	221,197,185	2,439,924,000	3,984	43,949	11.03
1956(1)	56,646	227,580,288	2,669,624,000	4,018	47,128	11.73
1959	49,087	200,755,462	2,468,737,000	4,090	50,293	12.30
1960	43,595	180,772,569	2,216,899,965	4,147	50,852	12.26
1961	43,382	180,584,748	2,166,926,895	4,163	49,950	12.00
1962	43,184	185,802,415	2,305,097,762	4,303	53,379	12.41
1963	41,067	173,309,830	2,011,653,417	4,220	48,985	11.61
1964	42,491	178,566,194	2,069,615,526	4,202	48,707	11.59
1965	38,559	167,816,484	1,973,613,885	4,352	51,184	11.76
1966	33,394	146,051,921	1,829,582,774	4,374	54,788	12.53
1967	30,173	131,088,086	1,685,026,453	4,345	55,846	12.85
1968	28,254	130,510,137	1,741,757,746	4,619	61,646	13.35
1969	28,290	137,055,349	1,944,533,863	4,845	68,736	14.19
1970	26,119	126,652,000	1,980,171,000	4,849	75,813	15.63
1971	24,156	115,636,560	1,848,874,443	4,787	76,539	15.99
1972	25,450	125,534,425	2,181,716,438	4,933	85,726	17.38
1973	25,356	128,306,687	2,496,218,326	5,060	98,447	19.46
1974	30,651	143,542,038	3,687,018,741	4,683	120,290	25.69

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(1) Data pertaining to well classification not available.

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 9a

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

			OIL WELLS							GAS WELLS			
Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	15,993	63,641,299	2,003,955,253	3,979	125,302	31.49	1975	7,383	40,613,623	1,667,555,125	5,501	225,864	41.06
1976	16,603	65,636,193	2,227,303,087	3,953	134,151	33.93	1976	8,631	45,714,695	2,011,603,612	5,297	233,067	44.00
1977	17,789	72,089,963	2,654,029,888	4,052	149,195	36.82	1977	11,086	58,790,972	2,924,519,836	5,303	263,803	49.74
1978	17,492	71,596,025	3,157,053,722	4,093	180,485	44.10	1978	12,887	68,610,863	3,996,244,518	5,324	310,098	58.25
1979	18,894	77,020,983	3,983,757,002	4,076	210,847	51.73	1979	13,626	72,733,130	5,010,426,429	5,337	367,710	68.90
1980	28,236	114,228,142	6,924,130,196	4,045	245,223	60.62	1980	14,781	81,400,828	6,720,984,786	5,507	454,704	82.57
1981	38,310	158,514,798	11,948,475,460	4,138	311,889	75.38	1981	17,018	95,089,567	10,125,963,881	5,588	595,015	106.49
1982	35,379	140,035,328	10,895,210,432	3,958	307,957	77.81	1982	16,610	96,211,915	12,572,614,054	5,792	756,930	130.69
1983	33,026	126,511,481	8,004,608,782	3,831	242,373	63.27	1983	12,626	69,362,851	6,642,729,531	5,494	526,115	95.76
			DRY HOLES							ONSHORE WELLS DRILLED			
1975	12,556	63,604,041	1,725,506,826	5,066	137,425	27.13	1975	35,932	167,858,963	5,397,017,204	4,672	150,201	32.15
1976	12,679	63,250,013	1,747,814,384	4,989	137,851	27.63	1976	37,913	174,600,901	5,986,721,083	4,605	157,907	34.29
1977	13,734	70,293,622	2,321,990,226	5,118	169,069	33.03	1977	42,609	201,174,557	7,900,539,950	4,721	185,420	39.29
1978	15,079	78,655,296	3,330,509,120	5,216	220,870	42.34	1978	45,458	218,862,184	10,483,807,360	4,814	230,626	47.91
1979	14,743	75,365,528	3,877,721,739	5,111	263,021	51.46	1979	47,263	225,119,641	12,871,899,170	4,763	272,346	57.18
1980	17,722	87,898,711	5,308,941,862	4,959	299,567	60.41	1980	60,739	283,527,681	18,954,056,844	4,667	312,057	66.86
1981	24,012	120,773,262	9,040,265,092	5,030	376,489	74.85	1981	79,340	374,377,627	31,114,704,433	4,719	392,169	83.11
1982	23,199	111,833,874	9,806,473,794	4,821	422,711	87.68	1982	75,188	348,081,117	33,274,298,280	4,629	442,548	95.60
1983	20,614	92,519,594	5,496,480,339	4,488	266,638	59.41	1983	66,266	288,393,926	20,143,818,652	4,352	303,984	69.85

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 10

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	227	2,599,612	88,835,000	9,385	320,704	34.17
1960	301	2,865,023	98,197,143	9,518	326,236	34.27
1961	336	3,187,520	115,617,334	9,487	344,099	36.27
1962	342	3,326,026	119,019,601	9,725	348,011	35.78
1963	372	3,689,368	130,912,957	9,918	351,917	35.48
1964	477	4,612,212	164,388,006	9,669	344,629	35.64
1965	487	4,919,944	193,026,274	10,103	396,358	39.23
1966	544	5,449,362	240,434,042	10,017	441,974	44.12
1967	739	6,258,340	303,250,028	8,469	410,352	48.46
1968	757	6,627,424	390,146,022	8,755	515,384	58.87
1969	585	5,208,156	320,848,306	8,903	548,459	61.61
1970	533	4,683,000	281,628,000	8,786	528,382	60.14
1971	309	2,912,973	163,352,339	9,427	528,648	56.08
1972	332	3,273,524	213,035,847	9,860	641,674	65.08
1973	296	2,686,193	181,945,598	9,075	614,681	67.73
1974	253	2,102,914	169,594,672	8,312	670,335	80.65

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	75	896,709	48,588,000	11,956	647,840	54.18
1960	87	1,042,922	52,700,835	11,988	605,757	50.53
1961	86	990,249	47,654,757	11,515	554,125	48.12
1962	115	1,260,484	57,016,076	10,961	495,792	45.23
1963	90	1,051,158	49,100,635	11,680	545,563	46.71
1964	125	1,501,956	63,316,005	12.016	506,528	42.16
1965	118	1,379,717	67,430,379	11,693	571,444	48.87
1966	146	1,756,848	97,073,943	12,033	664,890	55.25
1967	168	1,939,838	99,803,218	11,547	594,067	51.45
1968	179	1,995,683	106,519,840	11,149	595,083	53.38
1969	222	2,457,839	166,087,991	11,071	748,144	67.57
1970	193	2,049,000	138,878,000	10,617	719,575	67.78
1971	185	2,035,105	141,544,606	11,001	765,106	69.55
1972	230	2,460,625	175,825,867	10,698	764,460	71.46
1973	193	1,968,168	153,971,193	10,198	797,778	78.23
1974	155	1,578,821	151,606,723	10,186	978,108	96.02

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	124	1,260,615	44,936,000	10,166	362,387	35.65
1960	150	1,700,433	56,620,365	11,336	337,469	33.30
1961	184	1,906,624	67,963,659	10,362	369,368	35.65
1962	303	3,168,241	95,541,920	10,456	315,320	30.16
1963	324	3,429,706	111,196,941	10,586	343,200	32.42
1964	393	4,065,165	130,047,649	10,344	330,910	31.99
1965	432	4,588,937	167,365,988	10,623	387,421	36.47
1966	437	4,664,125	193,649,552	10,673	443,134	41.52
1967	458	4,719,526	211,098,687	10,305	460,914	44.73
1968	386	3,995,520	170,936,791	10,351	442,841	42.78
1969	384	3,983,883	179,201,104	10,375	466,670	44.98
1970	332	3,506,000	178,005,000	10,560	536,160	50.77
1971	390	4,059,347	217,720,125	10,409	558,257	53.63
1972	431	4,266,964	243,587,637	9,900	565,169	57.09
1973	399	3,699,708	242,397,135	9,272	607,512	65.52
1974	422	3,720,521	358,768,666	8,816	850,163	96.43

OFFSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	82(2)	783,000	24,499,000	9,549	298,768	31.29
1955(1)	414(3)	3,959,846	160,219,000	9,565	387,002	40.46
1956(1)	479(4)	4,593,420	198,786,000	9,590	415,002	43.28
1959	476	4,756,936	182,359,000	9,994	383,107	38.34
1960	538	5,608,378	207,518,343	10,424	385,722	37.00
1961	606	6,084,393	231,235,750	10,040	381,577	38.00
1962	760	7,754,751	271,577,597	10,204	357,339	35.02
1963	786	8,170,232	291,210,533	10,395	370,497	35.64
1964	995	10,179,333	357,751,660	10,230	359,549	35.14
1965	1,037	10,888,598	427,822,641	10,500	412,558	39.29
1966	1,127	11,870,335	531,157,537	10,533	471,302	44.75
1967	1,365	12,917,704	614,151,933	9,464	449,928	47.54
1968	1,322	12,618,627	667,602,653	9,545	504,994	52.91
1969	1,191	11,649,878	666,137,401	9,782	559,309	57.18
1970	1,058	10,238,000	598,511,000	9,677	565,700	58.46
1971	884	9,007,425	522,617,070	10,189	591,196	58.02
1972	993	10,001,113	632,449,351	10,072	636,908	63.24
1973	888	8,354,069	578,313,926	9,408	651,254	69.23
1974	830	7,402,256	679,970,061	8,918	819,241	91.86

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(1) Data pertaining to well classification not available.
(2) Louisiana only
(3) Includes Louisiana and Texas
(4) Includes Louisiana, Texas and California

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

			OIL WELLS							GAS WELLS			
Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	283	2,426,503	252,551,719	8,574	892,409	104.08	1975	271	2,762,301	337,855,300	10,193	1,246,699	122.31
1976	275	2,620,987	322,349,526	9,531	1,172,180	122.99	1976	273	2,651,086	395,814,965	9,711	1,449,872	149.30
1977	288	2,570,380	418,724,648	8,924	1,453,905	162.90	1977	393	3,722,271	674,578,971	9,471	1,716,486	181.23
1978	298	2,814,739	542,971,356	9,445	1,822,051	192.91	1978	419	4,208,599	982,577,287	10,044	2,345,053	233.48
1979	349	3,240,020	694,803,364	9,283	1,990,841	214.46	1979	453	4,606,734	1,227,705,600	10,169	2,710,166	266.51
1980	317	2,838,025	844,306,724	8,952	2,663,428	297.52	1980	444	4,418,820	1,445,737,826	9,952	3,256,166	327.19
1981	415	3,467,268	1,074,328,793	8,355	2,588,744	309.85	1981	515	5,167,952	2,122,169,769	10,035	4,120,718	410.64
1982	486	4,269,174	1,563,370,022	8,784	3,216,811	366.21	1982	442	4,591,603	2,165,054,206	10,388	4,898,313	471.54
1983	459	4,312,448	1,499,152,278	9,395	3,266,127	347.65	1983	293	3,124,493	1,213,032,793	10,664	4,140,044	388.96
			DRY HOLES							ONSHORE WELLS DRILLED			
1975	474	4,594,372	583,789,700	9,693	1,231,624	127.06	1975	1,028	9,783,176	1,174,196,719	9,517	1,142,215	120.02
1976	480	4,545,171	756,794,687	9,469	1,576,656	166.51	1976	1,028	9,817,244	1,474,959,178	9,550	1,434,785	150.24
1977	536	5,227,200	962,609,475	9,752	1,795,913	184.15	1977	1,217	11,519,851	2,055,913,094	9.466	1,689,329	178.47
1978	480	4,733,406	1,051,734,031	9,861	2,191,112	222.20	1978	1,197	11,756,744	2,577,282,674	9,821	2,153,118	219.24
1979	458	4,545,747	1,284,522,234	9,925	2,804,633	282.58	1979	1,260	12,392,501	3,207,031,198	9,835	2,545,262	258.80
1980	511	5,246,430	1,556,254,315	10,266	3,045,507	296.66	1980	1,272	12,503,275	3,846,298,865	9,829	3,023,819	307.64
1981	546	5,787,750	2,354,253,505	10,599	4,311,820	406.80	1981	1,476	14,422,470	5,550,752,067	9,771	3,760,672	384.87
1982	536	5,676,275	2,425,396,060	10,590	4,524,993	427.29	1982	1,464	14,537,052	6,153,820,288	9,930	4,203,429	423.31
1983	518	5,394,965	2,248,538,890	10,415	4,340,809	416.78	1983	1,270	12,831,906	4,960,723,961	10,104	3,906,082	386.59

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 11

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,413	96,931,320	1,321,426,000	3,814	51,998	13.63
1960	21,294	84,033,861	1,110,701,105	3,946	52,160	13.22
1961	21,204	82,924,129	1,086,761,395	3,911	51,253	13.11
1962	21,402	86,494,494	1,160,472,137	4,041	54,223	13.42
1963	20,678	81,099,806	1,071,138,207	3,922	51,801	13.21
1964	21,012	80,988,857	1,062,904,900	3,854	50,590	13.13
1965	18,857	76,547,513	1,066,795,319	4,059	56,573	13.94
1966	15,856	65,553,614	985,753,591	4,134	62,169	15.04
1967	14,935	59,934,309	995,368,948	4,013	66,647	16.61
1968	13,767	58,456,055	1,089,328,359	4,246	79,126	18.63
1969	12,915	57,934,449	1,117,128,484	4,486	86,499	19.28
1970	12,547	56,417,000	1,088,057,000	4,496	86,718	19.29
1971	11,405	48,585,207	894,505,082	4,260	78,431	18.41
1972	10,753	48,399,546	1,005,471,096	4,501	93,506	20.77
1973	9,705	44,667,140	1,006,975,314	4,602	103,758	22.54
1974	13,073	51,765,242	1,440,325,779	3,960	110,176	27.82

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	5,049	27,585,452	508,895,000	5,464	100,791	18.45
1960	5,262	29,078,303	540,179,339	5,526	102,656	18.58
1961	5,674	30,444,400	537,433,923	5,366	94,719	17.65
1962	5,858	31,431,795	568,771,758	5,366	97,093	18.10
1963	4,779	25,677,668	441,425,691	5,373	92,368	17.19
1964	4,874	27,493,848	510,564,089	5,641	104,753	18.57
1965	4,772	26,493,164	486,099,969	5,552	101,865	18.35
1966	4,060	24,974,116	543,251,563	6,151	133,806	21.75
1967	3,558	21,761,617	501,660,931	6,116	140,995	23.05
1968	3,324	20,531,823	493,736,115	6,177	148,537	24.05
1969	3,927	23,695,179	606,005,407	6,034	154,318	25.58
1970	3,844	23,093,000	617,583,000	6,007	160,662	26.74
1971	3,679	22,121,840	612,853,758	6,013	166,582	27.70
1972	5,086	28,884,634	802,385,522	5,679	157,764	27.78
1973	6,427	36,336,867	997,931,552	5,654	155,272	27.46
1974	6,695	37,131,063	1,266,540,323	5,546	189,177	34.11

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	19,101	80,995,626	820,775,000	4,240	42,970	10.13
1960	17,577	73,268,783	773,538,864	4,168	44,009	10.56
1961	17,110	73,300,612	773,967,327	4,284	45,235	10.56
1962	16,684	75,630,877	847,431,464	4,533	50,793	11.20
1963	16,396	74,702,588	790,300,052	4,556	48,201	10.58
1964	17,600	80,262,732	853,808,197	4,560	48,512	10.64
1965	15,967	75,664,405	848,541,238	4,739	53,143	11.21
1966	14,605	67,394,526	831,735,157	4,614	56,949	12.34
1967	13,045	62,309,864	802,148,507	4,777	61,491	12.87
1968	12,485	64,140,886	826,295,925	5,137	66,183	12.88
1969	12,639	67,075,559	887,537,373	5,307	70,222	13.23
1970	10,786	57,380,000	873,042,000	5,320	80,942	15.22
1971	9,956	53,936,938	864,132,673	5,418	86,795	16.02
1972	10,604	58,251,358	1,006,309,171	5,493	94,899	17.28
1973	10,112	55,656,749	1,069,625,386	5,504	105,778	19.22
1974	11,713	62,047,989	1,660,122,700	5,297	141,733	26.76

TOTAL WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	49,279	198,839,000	2,471,718,287	4,035	50,158	12.43
1955(1)	55,931	225,157,031	2,600,143,000	4,026	46,488	11.55
1956(1)	57,125	232,173,708	2,868,410,000	4,084	50,213	12.35
1959	49,563	205,512,398	2,651,096,000	4,146	53,500	12.90
1960	44,133	186,380,947	2,424,418,308	4,223	54,934	13.01
1961	43,988	186,669,141	2,398,162,645	4,244	54,518	12.85
1962	43,944	193,557,166	2,576,675,359	4,405	58,635	13.31
1963	41,853	181,480,062	2,302,863,950	4,336	55,023	12.69
1964	43,486	188,745,437	2,427,367,186	4,340	55,820	12.86
1965	39,596	178,705,082	2,407,436,526	4,513	60,648	13.44
1966	34,521	157,922,256	2,360,740,311	4,575	68,386	14.95
1967	31,538	144,005,790	2,299,178,386	4,566	72,902	15.97
1968	29,576	143,128,764	2,409,360,399	4,839	81,463	16.83
1969	29,481	148,705,227	2,610,671,264	5,044	88,554	17.56
1970	27,177	136,890,000	2,578,682,000	5,037	94,885	18.84
1971	25,040	124,643,985	2,371,491,513	4,978	94,703	19.03
1972	26,443	135,535,538	2,814,165,789	5,126	106,424	20.76
1973	26,244	136,660,756	3,074,532,252	5,207	117,152	22.50
1974	31,481	150,944,294	4,366,988,802	4,795	138,718	28.93

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(1) Data pertaining to well classification not available.

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 11a

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

			OIL WELLS							GAS WELLS			
Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	16,276	66,067,802	2,256,506,972	4,059	138,640	34.15	1975	7,654	43,375,924	2,005,410,425	5,667	262,008	46.23
1976	16,876	68,257,180	2,549,652,613	4,044	151,064	37.35	1976	8,904	48,356,781	2,401,418,577	5,432	270,375	49.78
1977	18,077	74,660,343	3,072,754,536	4,130	169,981	41.16	1977	11,479	62,513,243	3,599,098,807	5,446	313,538	57.57
1978	17,790	74,410,764	3,700,025,078	4,182	207,983	49.73	1978	13,306	72,819,462	4,978,821,805	5,472	374,178	68.38
1979	19,243	80,261,003	4,678,560,366	4,170	243,130	58.30	1979	14,079	77,339,864	6,238,126,029	5,493	443,080	80.66
1980	28,553	117,066,167	7,768,436,920	4,099	272,070	66.37	1980	15,225	85,819,648	8,166,722,612	5,636	536,402	95.17
1981	38,725	161,982,066	13,022,804,253	4,183	336,289	80.40	1981	17,533	100,257,519	12,248,133,650	5,718	698,576	122.17
1982	35,865	144,304,502	12,458,580,454	4,024	347,374	86.33	1982	17,052	100,803,518	14,737,668,260	5,912	864,278	146.19
1983	33,485	130,823,929	9,503,761,060	3,907	283,821	72.64	1983	12,919	72,487,344	7,855,762,324	5,611	608,078	108.37
			DRY HOLES							TOTAL WELLS DRILLED			
1975	13,030	68,198,413	2,309,296,526	5,234	177,229	33.86	1975	36,960	177,642,139	6,571,213,923	4,806	177,793	36.99
1976	13,159	67,795,184	2,504,609,071	5,152	190,334	36.94	1976	38,941	184,418,145	7,461,680,261	4,736	191,615	40.46
1977	14,270	75,520,822	3,284,599,701	5,292	230,175	43.49	1977	43,826	212,694,408	9,956,453,044	4,853	229,181	46.82
1978	15,559	83,388,702	4,382,243,151	5,359	281,653	52.56	1978	46,655	230,618,928	13,061,090,034	4,943	279,950	56.64
1979	15,201	79,911,275	5,162,243,973	5,256	339,598	64.61	1979	48,523	237,512,142	16,078,930,368	4,894	331,367	67.71
1980	18,233	93,145,141	6,865,196,177	5,108	376,525	73.71	1980	62,011	296,030,956	22,800,355,709	4,773	367,682	77.03
1981	24,558	126,560,512	11,394,518,597	5,154	463,934	90.03	1981	80,816	388,800,097	36,665,456,500	4,811	453,691	94.30
1982	23,735	117,510,149	12,231,869,854	4,951	515,352	104.09	1982	76,652	362,618,169	39,428,118,568	4,731	514,378	108.73
1983	21,132	97,914,559	7,745,019,229	4,633	366,507	79.11	1983	67,536	301,225,832	25,104,542,613	4,460	371,721	83.35

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry"
Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 12

FREE WORLD TOTAL WELL COMPLETIONS

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States	29,467	27,300	28,755	27,602	32,893	39,097	41,455	46,479	48,513	51,263	62,462	80,537	88,101
Canada	3,108	3,175	3,548	4,621	4,227	4,242	6,221	6,197	7,170	7,489	8,813	6,927	6,464
Mexico	502	516	431	422	408	353	336	307	406	333	434	412	336
Total North America	33,077	30,991	32,734	32,645	37,528	43,692	48,012	52,983	56,089	59,085	71,709	87,876	94,901
Argentina	579	595	623	597	606	552	646	647	865	773	953	904	822
Brazil	177	175	179	128	176	228	288	245	256	385	463	668	1,045
Ecuador	37	81	59	58	37	15	19	16	16	40	23	27	27
Peru	135	121	117	89	152	161	150	160	157	451	540	426	149
Trinidad-Tobago	135	220	196	212	200	189	192	217	215	188	218	243	200
Venezuela	589	464	371	427	416	284	337	446	637	1,030	1,275	1,491	1,500
Other	177	189	158	127	140	128	156	194	183	289	326	380	357
Total Latin America	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156	3,798	4,139	4,100
Total Western Hemisphere	34,906	32,836	34,437	34,283	39,255	45,249	49,800	54,908	58,418	62,241	75,507	92,015	99,001
Total North Sea	88	100	107	113	176	207	210	166	134	227	273	283	283
Other European	274	318	352	287	313	369	345	410	525	448	758	810	777
Total Europe	362	418	459	400	489	576	555	576	659	675	1,031	1,093	1,060
Algeria	115	109	80	83	79	107	54	130	60	267	249	159	0
Gabon	26	36	36	44	59	49	44	31	35	38	40	61	56
Libya	250	87	77	74	79	66	64	109	177	184	192	157	110
Nigeria	168	207	258	239	249	192	143	118	104	116	132	202	144
Other	150	214	194	157	162	191	130	208	208	236	257	369	461
Total Africa	709	653	645	597	628	605	435	596	584	841	870	948	771
Abu Dhabi(1)	7	19	37	37	64	49	82	67	78	89	123	146	169
Dubai(1)	0	7	16	18	17	17	30	31	12	7	13	11	23
Sharjah(1)	0	2	2	2	3	2	1	0	0	-	2	4	1
Iran	44	104	61	81	100	140	182	185	180	0	-	-	-
Iraq	6	17	0	16	2	0	2	NA	NA	66	67	-	-
Kuwait(2)	13	8	2	0	0	0	8	0	0	12	36	5	8
Saudi Arabia(2)	43	56	178	323	300	210	163	180	145	144	223	229	25
Neutral Zone(2)	23	12	9	13	19	14	15	4	0	3	4	5	6
Qatar	7	10	8	9	2	7	4	2	2	46	53	51	52
Oman	27	0	56	49	40	55	42	51	61	102	89	110	159
Other	72	58	56	61	83	102	75	124	107	143	207	210	128
Total Middle East	242	293	425	609	630	596	604	644	585	621	817	771	571
Indonesia	84	422	312	501	630	588	513	409	536	473	635	727	323
Other	162	157	223	197	180	157	229	295	440(4)	2,492	3,443	3,539	592
Total Far East	246	579	535	698	810	745	742	704	976	2,965	4,078	4,266	915
Total Eastern Hemisphere	1,559	1,943	2,064	2,304	2,557	2,522	2,336	2,520	2,804	5,102	6,796	7,078	3,317
TOTAL FREE WORLD	36,465	34,779	36,501	36,587	41,812	47,771	52,136	57,428	61,222	67,343	82,303	99,093	102,318

(1) Member of United Arab Emirates
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
(3) Less than one-tenth of one percent
NA Not Available

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

Section III
Table 13

FREE WORLD TOTAL EXPLORATORY WELL COMPLETIONS

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States	7,693	6,922	7,539	7,466	8,619	9,214	9,234	9,961	10,677	10,484	11,916	15,168	16,482
Canada	1,537	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925	3,857	3,074	2,346
Mexico	130	129	143	104	98	87	79	79	83	NA	85	63	65
Total North America	9,360	8,585	9,315	9,789	10,452	10,950	11,794	12,841	13,904	NA	15,858	18,305	18,893
Argentina	113	157	110	139	117	78	83	143	81	NA	110	127	107
Brazil	100	87	80	78	86	87	105	155	89	NA	166	245	328
Ecuador	20	15	20	8	5	3	3	5	3	NA	0	3	5
Peru	28	21	25	31	43	43	36	37	28	NA	13	17	12
Trinidad-Tobago	23	35	23	15	13	14	23	17	8	NA	51	16	23
Venezuela	90	44	64	63	76	35	45	48	60	NA	69	351	250
Other	70	60	77	50	65	61	67	56	60	NA	NA	211	150
Total Latin America	444	419	399	384	405	321	362	406	329	NA	409	970	879
Total Western Hemisphere	9,804	9,004	9,714	10,173	10,857	11,271	12,156	13,247	14,233	NA	16,267	19,275	19,772
Total North Sea	66	53	51	70	92	124	109	21	38	168	NA	135	201
Other European	93	146	159	147	151	172	163	231	259	157	NA	372	398
Total Europe	159	199	210	217	243	296	272	252	297	325	NA	507	599
Algeria	37	25	10	13	9	17	11	11	3	3	2	1	1
Gabon	13	11	17	15	13	23	19	19	20	22	15	23	16
Libya	51	41	34	25	32	36	22	33	41	30	35	43	34
Nigeria	31	55	61	45	51	33	21	24	35	22	31	26	30
Other	131	125	101	80	86	91	89	117	102	133	124	191	216
Total Africa	263	257	223	178	191	200	162	204	201	204	207	284	297
Abu Dhabi(1)	7	8	21	7	3	0	9	5	19	NA	6	NA	22
Dubai(1)	0	0	0	1	0	0	5	9	5	NA	2	NA	3
Sharjah(1)	0	2	1	0	0	0	1	0	0	NA	2	NA	1
Iran	11	6	2	18	27	26	26	25	10	NA	0	NA	0
Iraq	1	0	0	3	2	0	2	NA	NA	NA	0	NA	0
Kuwait(2)	1	2	0	0	0	0	2	0	0	NA	2	NA	8
Saudi Arabia(2)	2	2	6	3	4	9	24	4	25	NA	40	NA	25
Neutral Zone(2)	0	0	0	0	0	0	0	0	0	NA	0	NA	2
Qatar	2	1	6	1	0	0	0	0	0	NA	3	NA	4
Oman	2	0	16	0	0	0	0	10	24	NA	15	NA	31
Other	46	27	29	32	34	65	51	46	39	NA	18	NA	71
Total Middle East	72	48	81	65	70	100	120	99	122	NA	88	NA	167
Indonesia	84	135	137	169	176	186	130	115	146	NA	182	NA	167
Other	162	126	175	173	162	127	119	132	249(3)	NA	221	NA	297
Total Far East	246	261	312	342	338	313	249	247	395	377	403	125	464
Total Eastern Hemisphere	740	765	826	802	842	909	803	802	1,015	NA	698	916	1,527
TOTAL FREE WORLD	10,544	9,769	10,540	10,975	11,699	12,180	12,959	14,049	15,248	14,315	16,695	20,191	21,299

(1) Member of United Arab Emirates
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
(3) Includes Oceania
NA Not Available
NOTE: Complete data for 1979 through 1981 is not available for all areas.

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

Section III
Table 14

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1
California	173	134	157	165	159	138	143	119	97	80	93	80	82	97
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6
Louisiana	239	231	243	257	280	312	401	442	423	309	332	287	275	261
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2
North Carolina	0	0	0	0	1	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53
TOTAL	2,107	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637

Source: Hughes Tool Company

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	5	2	1	2	2	3	6	7	8	15	13	12	14	17
Alaska	6	5	6	13	21	20	28	14	5	5	5	9	14	14
Arkansas	10	9	11	10	8	7	16	13	15	15	15	18	14	15
Arizona	1	2	1	1	3	1	2	0	1	0	2	1	0	1
California	85	93	89	79	83	87	78	52	46	46	51	72	80	89
Colorado	23	21	19	16	16	17	23	25	30	35	42	46	42	38
Florida	0	1	4	2	2	1	1	4	11	18	9	7	9	5
Georgia	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Idaho	1	0	0	0	0	0	0	1	0	0	1	0	0	1
Illinois	25	20	24	30	30	22	17	14	13	14	6	7	19	22
Indiana	6	6	5	5	3	2	1	1	1	1	0	1	2	0
Iowa	1	0	0	1	0	0	0	0	1	2	1	0	2	0
Kansas	96	87	70	56	41	35	38	30	29	24	28	44	57	51
Kentucky	10	8	12	13	9	5	2	1	2	2	1	2	1	1
Louisiana	265	282	270	256	235	233	230	204	194	215	205	203	228	231
Maryland	0	2	2	4	0	1	1	0	0	1	0	0	0	1
Michigan	14	13	11	9	10	10	10	11	12	17	20	24	28	24
Mississippi	46	39	35	34	33	36	40	43	39	37	29	29	25	32
Missouri	1	0	0	1	0	0	0	0	0	0	1	0	0	0
Montana	22	21	26	24	22	34	31	17	17	20	19	24	27	28
Nebraska	12	11	10	8	5	5	10	6	5	6	5	7	9	8
Nevada	0	1	2	1	1	2	0	0	0	0	0	1	0	2
New Mexico	84	79	65	60	56	68	64	40	47	56	62	79	71	54
New York	1	1	1	1	1	1	0	0	1	0	1	7	8	9
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	9	14	12	12	11	13	12	9	9	7	10	12	17	19
Ohio	12	56	22	14	18	22	22	24	17	22	36	30	21	26
Oklahoma	158	158	163	141	101	106	120	98	90	90	115	146	177	186
Oregon	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Pennsylvania	12	11	9	10	7	5	7	9	9	8	11	14	10	10
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	2	0	0	1	1	2	1	1	1	1	1	2
Tennessee	0	0	0	1	1	0	1	2	1	0	0	0	0	0
Texas	500	477	425	387	340	329	322	302	291	338	376	508	638	653
Utah	22	17	14	14	15	12	12	12	17	34	38	42	26	19
Virginia	1	1	1	0	0	0	0	1	1	0	1	2	3	0
Washington	1	0	0	1	1	0	0	0	0	0	0	0	0	0
West Virginia	14	16	24	19	15	16	18	16	17	17	20	16	10	12
Wyoming	55	48	50	48	44	75	81	71	45	61	70	107	107	86
TOTAL	1,500	1,502	1,387	1,273	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656

Source: Hughes Tool Company

Section III
Table 14b

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	13	13	13	11	17	15	16	15
Alaska	15	16	13	14	23	22	14	14
Arkansas	14	14	10	27	34	27	26	26
Arizona	1	0	0	1	1	1	0	0
California	90	94	96	120	155	129	106	107
Colorado	45	41	40	61	82	60	52	54
Florida	6	6	5	4	8	5	4	4
Georgia	0	0	0	0	1	2	0	0
Hawaii	0	0	0	0	1	0	1	0
Idaho	1	3	2	3	3	2	1	1
Illinois	16	28	13	25	45	76	60	41
Indiana	3	4	0	0	1	7	6	7
Iowa	1	0	0	0	0	0	0	0
Kansas	67	76	66	120	196	157	124	128
Kentucky	2	3	0	0	5	10	8	8
Louisiana	292	338	347	427	456	343	283	310
Maryland	0	1	1	0	1	0	0	0
Michigan	24	24	25	31	36	31	29	34
Mississippi	41	44	40	58	71	42	33	32
Missouri	0	0	0	0	0	0	0	0
Montana	27	30	33	49	81	36	24	36
Nebraska	9	10	9	14	15	9	9	9
Nevada	3	2	4	5	5	3	1	5
New Mexico	69	76	88	118	135	103	65	78
New York	7	7	9	7	12	15	10	9
North Carolina	0	0	0	0	0	0	0	0
North Dakota	24	39	56	83	119	69	43	51
Ohio	33	45	46	75	98	57	39	51
Oklahoma	233	258	247	397	698	622	285	319
Oregon	0	0	1	1	2	1	0	0
Pennsylvania	15	25	29	29	44	33	22	36
Rhode Island	1	4	4	2	2	2	0	0
South Dakota	3	2	1	2	2	2	1	2
Tennessee	0	0	0	1	0	2	1	0
Texas	778	855	770	988	1,316	990	796	850
Utah	30	32	29	42	69	40	37	45
Virginia	1	1	1	1	3	2	2	2
Washington	0	0	0	0	1	1	1	1
West Virginia	17	27	30	38	45	49	34	38
Wyoming	120	137	147	156	191	143	96	115
TOTAL	2,001	2,255	2,176	2,910	3,970	3,105	2,229	2,428

Source: Hughes Tool Company

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1967 Exploratory	1967 Development	1967 Total(1)	1968 Exploratory	1968 Development	1968 Total(1)	1969 Exploratory	1969 Development	1969 Total(1)	1970 Exploratory	1970 Development	1970 Total(1)
Alabama	28	10	38	18	14	32	34	14	48	27	18	45
Alaska	33	41	74	18	86	107	12	51	67	60	52	115
Offshore*	--	--	--	N.A.	N.A.	N.A.	2	44	50	1	18	21
Arizona	14	10	24	6	4	10	24	14	39	9	3	13
Arkansas	87	320	409	111	211	322	131	288	422	85	222	318
California*	352	2,182	2,668	353	2,366	2,888	288	1,712	2,167	250	1,834	2,370
Offshore	12	73	101	28	304	367	17	210	262	16	130	162
Colorado	277	262	539	270	224	495	538	276	820	476	234	710
Florida	11	--	11	9	4	13	8	5	13	10	15	25
Georgia	--	--	--	--	--	--	2	--	2	4	--	4
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	328	861	1,339	253	789	1,226	241	639	988	198	499	776
Indiana	254	220	510	158	179	367	178	189	407	144	143	302
Iowa	1	--	25	--	--	22	--	--	7	3	--	5
Kansas	1,270	1,937	3,345	1,186	1,849	3,107	1,058	1,919	3,105	833	1,588	2,465
Kentucky	458	1,086	1,647	453	828	1,379	256	696	1,030	228	581	885
Louisiana	935	2,209	3,185	1,026	2,415	3,478	865	2,272	3,174	671	2,277	2,985
Offshore*	296	559	867	352	696	1,068	147	678	835	140	698	851
Maryland	--	--	--	--	--	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	173	191	365	174	196	380	164	168	348	155	128	286
Minnesota	--	--	--	--	--	1	--	--	--	--	--	--
Mississippi	347	368	722	382	297	688	373	342	716	235	321	577
Missouri	4	--	19	4	12	38	7	22	57	4	10	14
Montana	302	252	580	465	400	882	499	296	834	424	179	621
Nebraska	95	84	179	196	89	288	285	98	388	161	76	238
Nevada	7	2	9	--	--	--	14	2	16	10	--	18
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	166	925	1,118	154	743	925	190	984	1,219	163	565	761
New York	35	176	238	9	97	120	6	128	166	11	88	110
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	60	93	156	121	62	186	178	74	252	109	58	168
Ohio	75	1,186	1,267	79	1,084	1,165	53	1,185	1,255	36	1,314	1,351
Oklahoma	421	2,431	3,074	422	2,318	2,996	546	2,567	3,395	458	2,227	2,901
Oregon	1	--	1	--	--	--	--	--	--	--	--	--
Offshore*	1	--	1	--	--	--	--	--	--	--	--	--
Pennsylvania	59	564	683	62	733	897	43	853	1,018	40	683	774
South Dakota	4	--	4	4	--	4	56	--	56	83	--	83
Tennessee	47	--	47	25	1	26	23	3	27	22	28	50
Texas	2,508	6,628	9,576	2,207	5,407	8,743	2,718	5,938	9,233	2,098	5,624	8,114
Offshore*	61	41	102	40	13	53	103	11	114	51	9	60
Utah	67	75	144	41	58	99	103	71	175	43	40	85
Vermont	--	--	--	--	--	--	1	--	1	--	--	--
Virginia	--	--	--	--	--	--	8	2	10	--	--	--
Washington*	3	--	3	2	--	2	--	--	--	--	--	--
Offshore	1	--	1	--	--	--	--	--	--	--	--	--
West Virginia	36	738	777	87	646	735	83	819	920	74	790	882
Wyoming	420	505	1,042	584	608	1,293	716	859	1,678	569	830	1,416
N. Gulf of Mexico(2)	--	--	--	--	--	--	--	--	--	--	--	--
Total	8,878	23,356	33,818	8,879	21,720	32,914	9,701	22,486	34,053	7,693	20,427	29,467

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 15a

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

	1971			1972			1973			1974		
STATE/AREA	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	48	14	64	85	30	116	70	32	102	58	40	98
Alaska	5	27	32	13	13	31	14	20	35	12	26	38
Offshore*	--	1	1	--	4	7	3	6	10	--	11	11
Arizona	5	3	8	12	10	23	4	4	8	5	6	11
Arkansas	92	250	365	101	243	350	79	206	292	90	227	320
California	220	1,585	2,083	186	1,209	1,683	202	1,005	1,325	235	1,715	2,153
Offshore*	15	55	74	4	60	86	1	49	63	6	58	71
Colorado	563	374	939	512	493	1,008	442	398	840	338	498	843
Florida	13	8	22	42	67	113	37	30	67	30	15	48
Georgia	2	--	2	2	--	2	3	--	3	5	--	5
Idaho	--	--	--	--	--	--	6	--	6	2	--	2
Illinois	165	399	636	149	453	655	196	360	611	220	575	823
Indiana	114	101	232	131	138	285	139	100	259	168	208	390
Iowa	1	--	1	--	--	--	--	--	--	2	--	2
Kansas	741	1,608	2,413	764	1,634	2,458	739	1,314	2,114	847	1,843	2,825
Kentucky	202	559	810	220	536	822	164	467	661	184	474	697
Louisiana	802	2,133	2,983	736	2,329	3,093	712	2,192	2,940	646	2,124	2,830
Offshore*	267	534	823	207	598	812	208	690	914	151	510	680
Maryland	--	--	--	--	--	--	--	--	1	2	--	2
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	161	141	305	182	127	317	176	102	281	258	144	414
Mississippi	200	286	498	236	181	462	207	143	361	292	150	450
Missouri	6	7	13	3	--	6	8	1	9	24	8	101
Montana	303	124	457	447	306	773	435	207	647	381	291	673
Nebraska	107	80	189	198	94	292	102	61	163	155	75	230
Nevada	13	--	13	2	--	2	--	--	--	2	--	2
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	129	687	833	216	818	1,059	191	859	1,098	209	919	1,142
New York	10	90	129	14	116	145	21	127	161	49	243	348
North Carolina	12	--	12	--	--	--	--	--	--	11	--	11
North Dakota	97	62	162	65	34	99	72	50	124	74	53	128
Ohio	27	1,130	1,161	55	1,276	1,333	60	1,444	1,504	172	1,616	1,790
Oklahoma	415	1,840	2,490	416	1,884	2,519	352	1,929	2,403	396	2,661	3,189
Oregon	--	--	--	--	--	--	3	--	3	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	22	619	701	66	835	956	97	1,002	1,142	101	1,107	1,322
South Dakota	35	--	36	26	10	36	21	1	22	9	2	11
Tennessee	128	67	195	67	27	94	66	32	100	85	50	135
Texas	1,818	5,453	7,728	1,973	5,693	8,088	2,325	5,773	8,494	2,907	6,622	9,808
Offshore*	38	6	44	47	6	53	66	6	72	150	13	163
Utah	55	32	87	86	74	160	70	125	196	56	139	196
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	18	18	4	5	9	8	53	61
Washington	--	--	--	--	--	12	--	--	--	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	66	702	780	83	591	679	80	621	701	102	677	780
Wyoming	345	548	921	451	513	1,066	369	516	920	470	518	1,001
N. Gulf of Mexico(2)	--	--	--	--	--	--	--	--	--	14	--	14
Total	6,922	18,929	27,300	7,539	19,752	28,755	7,466	19,126	27,602	8,619	23,079	32,893

* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 15b

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1975			1976			1977			1978		
	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	65	45	110	69	64	133	44	88	133	63	105	169
Alaska	22	41	67	7	5	81	29	46	83	8	49	64
Offshore*	1	13	14	--	13	20	10	12	30	5	7	14
Arizona	2	--	3	--	--	--	--	--	--	4	3	7
Arkansas	78	243	329	76	354	440	86	399	495	95	347	450
Atlanta Coast							--	--	1	7	-	7
California	205	1,999	2,615	233	1,965	2,540	296	2,203	2,917	356	1,567	2,389
Offshore*	6	62	73	2	26	28	22	32	61	14	67	86
Colorado	413	778	1,198	372	675	1,052	383	822	1,211	463	733	1,224
Florida	27	19	47	14	16	30	12	13	29	16	13	29
Georgia	3	--	3	4	--	4	--	--	--	--	--	--
Idaho	1	--	1	2	--	2	1	--	1	6	--	6
Illinois	254	702	1,041	247	1,066	1,527	241	864	1,174	265	829	1,167
Indiana	156	217	400	195	290	507	277	339	624	267	400	683
Iowa	--	--	--	--	--	--	1	--	1	--	--	--
Kansas	879	2,180	3,398	914	2,793	3,977	980	2,824	3,933	1,107	3,128	4,322
Kentucky	313	605	973	373	700	1,094	365	640	1,039	351	573	961
Louisiana	708	2,328	3,098	611	2,814	3,476	645	2,710	3,398	662	2,396	3,084
Offshore*	151	495	653	102	567	678	137	634	781	119	553	683
Maryland	1	--	1	--	2	2	--	--	--	--	--	--
Massachusetts-Off	--	--	--	--	--	1	--	--	--	--	--	--
Michigan	272	244	519	282	216	522	329	266	600	266	241	521
Mississippi	263	188	453	266	201	469	260	275	540	247	239	489
Missouri	16	6	92	8	15	45	9	4	54	7	25	49
Montana	379	531	913	321	351	674	319	440	761	308	363	673
Nebraska	202	136	345	188	134	323	232	180	424	221	160	384
Nevada	4	--	4	7	--	7	14	5	19	13	3	16
New Jersey	--	--	--	--	--	1	--	--	--	--	--	--
New Mexico	170	1,043	1,247	172	811	1,006	172	1,164	1,350	174	1,371	1,583
New York	21	373	437	52	503	596	50	393	538	47	364	482
North Carolina	2	--	2	--	--	1	--	--	--	--	--	--
North Dakota	109	98	213	116	118	234	106	118	225	163	164	327
Ohio	121	1,099	1,223	171	1,748	1,919	125	2,466	2,593	40	2,564	2,606
Oklahoma	394	3,252	3,796	434	3,782	4,393	473	4,466	4,976	502	5,320	5,859
Oregon	--	--	--	--	--	--	2	--	2	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	109	1,290	1,496	71	1,191	1,311	93	1,361	1,462	96	1,631	1,748
South Dakota	22	2	28	27	5	32	22	18	41	17	28	45
Tennessee	143	60	203	165	50	215	156	88	244	151	71	222
Texas	3,203	8,883	12,483	3,269	9,141	12,740	3,549	10,730	14,759	3,741	10,565	14,747
Offshore*	162	10	174	147	79	226	143	195	338	143	147	290
Utah	66	128	196	39	82	126	94	179	277	79	182	277
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	8	28	36	3	8	11	9	16	25	5	26	31
Washington	--	--	--	3	--	3	--	--	--	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	91	700	794	99	809	956	108	1,062	1,213	165	1,228	1,404
Wyoming	461	802	1,301	395	571	975	465	826	1,307	477	905	1,395
N. Gulf of Mexico(2)	31	1	32	29	1	30	14	16	30	7	13	20
Total	9,214	28,021	39,097	9,234	30,531	41,445	9,961	35,021	46,479	10,677	36,380	48,513

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1979			1980			1981			1982		
	Exploratory	Development	Total[1]	Exploratory	Development	Total[1]	Exploratory	Development	Total[1]	Exploratory	Development	Total(1)
Alabama	97	117	214	80	109	189	76	133	212	70	133	207
Alaska	20	49	77	14	116	134	20	118	141	8	190	203
Offshore*	6	4	10	--	3	5	--	--	--	--	--	--
Arizona	2	6	8	4	--	4	6	--	7	6	8	16
Arkansas	105	394	505	111	496	612	153	722	887	127	652	796
Atlantic Coast[3]	18	--	18	4	--	4	--	--	--	--	--	--
California	363	1,457	2,150	410	1,829	2,659	492	2,196	3,224	489	2,214	3,147
Offshore*	7	87	120	7	72	107	6	118	165	14	150	184
Colorado	439	590	1,036	487	765	1,253	737	964	1,707	743	1,244	1,990
Florida	15	22	41	5	6	12	9	12	23	11	14	25
Georgia							3	--	3	2	--	2
Idaho	2	--	2	6	--	6	5	--	5	5	--	5
Illinois	233	897	1,208	444	1,535	2,127	663	2,477	3,282	648	2,353	3,142
Indiana	186	305	500	324	404	746	348	461	831	449	573	1,051
Kansas	1,078	3,158	4,306	1,097	3,981	5,161	1,492	5,251	6,865	2,110	6,833	9,166
Kentucky	354	584	986	447	813	1,294	508	1,187	1,780	821	2,159	3,109
Louisiana	678	3,362	4,078	798	4,064	4,956	957	4,422	5,573	825	4,183	5,060
Offshore*	116	563	679	148	487	642	179	516	696	158	420	648
Maryland	--	--	9	--	--	--	--	--	--	--	--	--
Michigan	246	262	527	321	344	682	381	364	766	423	370	810
Mississippi	244	271	544	280	339	631	342	411	758	282	340	622
Missouri	15	50	81	15	8	31	34	79	223	92	262	469
Montana	298	451	750	374	501	882	432	628	1,064	427	755	1,204
Nebraska	258	191	453	293	242	538	263	342	607	227	221	453
Nevada	10	4	16	12	1	13	20	1	24	24	2	29
New Mexico	201	1,358	1,607	292	1,643	1,966	294	2,077	2,451	352	1,881	2,298
New York	51	366	428	20	458	494	108	465	581	44	480	525
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	144	220	364	242	343	586	377	364	743	448	367	816
Ohio	125	3,367	3,492	60	3,209	3,269	102	5,340	5,455	146	4,360	4,515
Oklahoma	484	5,863	6,362	508	8,533	9,073	651	10,649	11,329	682	11,301	12,008
Oregon	17	4	21	22	9	31	30	--	30	8	--	8
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	68	1,789	1,941	131	1,825	2,020	405	3,018	3,554	214	3,828	4,224
South Dakota	34	16	50	17	23	41	42	37	79	35	35	70
Tennessee	94	133	227	188	152	340	188	127	315	244	148	392
Texas	4,011	11,588	16,149	4,274	14,423	19,253	5,102	18,468	23,940	5,464	20,689	26,849
Offshore*	119	93	212	102	64	166	97	88	185	116	116	232
Utah	86	168	255	91	186	280	173	246	421	172	374	551
Virginia	4	21	25	1	13	14	3	38	41	29	70	99
Washington	--	--	--	--	--	--	--	--	--	6	--	16
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	108	1,332	1,474	112	1,565	1,717	155	1,668	1,882	157	1,846	2,045
Wyoming	379	930	1,335	412	977	1,407	575	1,098	1,705	665	1,397	2,122
N. Gulf of Mexico[2]	17	7	24	16	17	33	22	7	29	23	31	54
Alaska[3]	--	--	--	4	--	4	--	--	--	--	--	--
Pacific Coast[4]										4	--	4
Total	10,484	39,332	51,263	11,916	48,929	62,462	15,168	63,370	80,537	16,482	69,313	88,108

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(3) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1983 Exploratory	1983 Development	1983 Total(1)	1984 Exploratory	1984 Development	1984 Total(1)
Alabama	87	105	192	112	175	287
Alaska	2	170	188	7	115	130
Offshore*	0	18	22	0	5	5
Arizona	10	1	16	7	0	7
Arkansas	152	688	860	124	681	821
Atlantic Coast(3)	12	0	12	3	0	3
California*	222	2,448	3,163	197	3,256	3,944
Offshore	14	127	171	14	108	128
Colorado	510	954	1,467	523	1,101	1,624
Florida	14	10	24	12	9	21
Georgia	0	0	0	2	0	2
Idaho	2	0	2	6	0	6
Illinois	639	2,028	2,753	656	2,106	2,881
Indiana	456	536	1,027	402	514	976
Kansas	1,559	5,599	7,406	2,267	5,040	7,451
Kentucky	973	2,174	3,278	1,865	3,926	5,952
Louisiana	573	3,923	4,575	733	5,634	6,475
Offshore*	107	600	709	187	780	967
Maryland	2	0	2	0	0	0
Michigan	323	488	823	443	480	934
Mississippi	266	307	573	246	313	559
Missouri	50	118	284	49	103	207
Montana	191	374	570	219	439	669
Nebraska	173	181	355	174	171	356
Nevada	9	0	9	19	3	22
New Mexico	218	1,340	1,601	205	1,418	1,664
New York	43	439	483	34	510	545
North Carolina	0	0	0	0	0	0
North Dakota	205	331	537	272	379	651
Ohio	183	5,900	6,098	127	4,605	4,767
Oklahoma	647	9,363	10,043	539	9,290	9,887
Oregon	0	0	0	1	0	1
Offshore*	0	0	0	0	0	0
Pennsylvania	121	2,332	2,531	86	2,460	2,592
South Dakota	48	32	80	18	12	30
Tennessee	643	284	927	114	389	503
Texas	4,820	19,144	24,616	4,883	20,556	26,134
Offshore*	193	164	357	92	74	166
Utah	136	265	421	101	296	397
Virginia	15	22	37	0	59	59
Washington*	2	0	2	0	0	5
Offshore	0	0	0	0	0	0
West Virginia	114	1,865	2,025	44	1,894	1,969
Wyoming	439	979	1,492	511	997	1,552
N. Gulf of Mexico(2)	11	42	53	58	24	82
Alaska(3)	0	0	0	1	0	1
Pacific Coast(3)	17	0	17	17	0	17
Total	13,887	62,439	78,542	15,077	66,955	84,183

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* Included in state total

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(3) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

U.S. ROTARY RIG CENSUS

Year	Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	DRILLING DEPTH CAPABILITIES (Thousand Feet) 0-5	6-9	10-12	13-15	16-Over	Total Land Rigs	Drilling Barges	Offshore Rigs
1967(1)	2,408	2,359	49	835	1,573	623	776	435	199	375	2,114	121	173
1968	2,111	2,067	44	603	1,508	493	680	381	185	372	1,825	114	172
1969	2,060	2,033	27	411	1,649	528	626	352	128	366	1,827	98	135
1970	1,898	1,869	29	567	1,331	434	580	322	219	343	1,662	106	130
1971	1,859	1,832	27	551	1,308	436	535	329	198	361	1,592	124	143
1972	1,768	1,741	27	387	1,381	409	490	301	171	397	1,551	77	140
1973	1,767	1,739	28	294	1,473	355	517	318	164	413	1,570	71	126
1974	1,894	1,881	13	125	1,769	387	529	339	214	425	1,715	66	113
1975	2,028	2,015	14	151	1,877	396	579	380	225	558	1,839	74	115
1976	2,204	2,180	24	225	1,979	468	633	366	239	498	1,964	76	164
1977	2,482	2,451	31	83	2,399	542	628	461	274	577	2,186	77	219
1978	2,851	2,818	33	66	2,785	557	723	565	313	693	2,524	91	236
1979	3,182	3,144	38	308	2,874	546	783	631	350	872	2,802	109	271
1980	3,672	3,626	46	130	3,542	605	885	704	419	1,059	3,255	115	302
1981	4,803	4,762	41	100	4,703	773	1,080	950	595	1,405	4,316	161	326
1982	5,644	5,606	38	2,419	3,225	821	1,285	1,104	717	1,717	5,139	157	348
1983	5,273	5,241	32	2,734	2,539	746	1,233	993	662	1,639	4,832	128	313
1984	4,580	4,553	27	1,490	3,090	571	1,077	933	591	1,408	4,102	131	347

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(1) Data for prior years not available on a comparable basis.

Source: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year)

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	4	4
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	2	2
Arizona	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Arkansas	160	165	168	179	190	200	230	240	240	255	260	300	320	370
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479
Maryland	--	--	--	--	--	--	--	--	--	--	--	--	38	38
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	--	9
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	50	53
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047
New York	1,700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000
North Dakota	--	--	--	--	--	--	--	--	--	--	--	--	28	28
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063
Oklahoma	3,250	3,400	3,500	3,600	3,600	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tennessee(1)	--	18	18	18	20	20	27	28	28	28	30	30	25	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612
Utah	--	--	--	--	--	--	--	--	--	--	--	--	37	35
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	53	92
West Virginia	15,800	16,100	15,500	13,900	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350
Other	30	34	40	43	70	100	109	117	125	130	145	170	--	--
Total	63,670	64,212	64,146	64,900	65,100	65,450	68,233	70,192	71,475	74,261	77,041	80,400	83,225	90,761

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(1) Prior to 1948 included with Kentucky

Source: U.S. Bureau of Mines, Natural Gas Annuals

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	--	--	2	--	--	--	--	1	1	2	--	15	15	6
Alaska	5	8	10	13	11	19	21	18	44	51	40	50	52	52
Arizona	--	3	7	10	8	9	7	4	4	4	5	4	4	1
Arkansas	485	480	490	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172
California	774	826	879	950	1,033	1,068	1,059	994	897	980	962	1,086	1,095	1,142
Colorado	462	451	501	560	701	826	827	810	805	861	928	934	1,050	1,347
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	74	30	25	25	25	3	3	5	5	8	14	31	36	37
Indiana	300	290	285	280	275	275	271	265	263	50	83	87	106	474
Kansas	6,633	6,915	7,050	7,174	7,200	8,608	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800
Kentucky	5,119	5,200	5,210	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307
Louisiana	6,990	7,442	7,859	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248
Maryland	34	33	33	16	20	8	13	15	13	16	14	16	15	15
Michigan	155	174	175	195	226	250	244	199	211	1,235	1,171	1,317	1,145	503
Mississippi	472	490	450	435	370	376	360	347	322	325	400	252	250	239
Missouri	9	6	6	6	11	11	11	11	11	11	2	3	2	3
Montana	981	954	905	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450
Nebraska	49	47	44	41	39	37	37	36	35	35	29	29	29	25
New Mexico	6,491	6,967	7,150	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915
New York	1,109	1,130	1,130	1,155	1,150	1,164	1,159	1,155	818	600	600	650	789	700
North Dakota	28	29	31	31	31	31	31	19	33	29	29	21	44	34
Ohio	7,077	7,117	7,128	7,160	7,100	3,790	3,865	7,211	7,334	7,789	8,179	8,630	9,406	10,038
Oklahoma	6,218	6,324	6,639	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401
Pennsylvania	16,500	16,600	16,600	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,600	16,600	17,123
South Dakota	--	--	--	--	--	--	--	--	--	--	--	5	10	20
Tennessee	23	30	30	30	20	20	21	23	26	15	20	45	6	13
Texas	19,831	20,834	22,016	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646
Utah	135	121	135	135	148	156	168	165	171	173	178	200	158	114
Virginia	98	98	98	100	99	104	104	111	111	115	115	130	178	174
West Virginia	16,297	17,121	17,500	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450
Wyoming	460	547	578	610	701	741	749	787	521	800	840	887	850	900
Total	96,809	100,267	102,966	103,084	111,680	112,498	112,321	114,391	114,476	117,483	120,210	121,158	124,178	126,349

Source: U.S. Bureau of Mines, Natural Gas Annuals

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	45	66	69	189	250	314	385	489	461
Alaska	61	50	50	52	58	71	79	97	78
Arizona	1	1	1	1	1	1	1	1	1
Arkansas	1,128	1,223	1,253	1,335	1,402	1,114	1,600	1,959	1,763
California	1,585	1,123	1,050	1,131	1,117	1,125	1,110	1,352	1,413
Colorado	1,380	1,500	2,053	2,318	2,574	2,997	3,543	4,008	4,391
Florida	--	--	--	--	--	--	--	--	--
Illinois	41	34	34	51	51	70	70	57	64
Indiana	478	563	596	641	655	698	720	736	737
Kansas	8,865	9,330	9,375	9,450	10,544	12,820	15,550	13,800	14,100
Kentucky	7,386	7,505	7,649	7,776	7,883	7,984	8,151	8,219	8,532
Louisiana	11,359	11,370	12,484	13,333	14,464	16,190	17,048	16,586	16,700
Maryland	15	14	12	12	12	9	10	8	8
Michigan	209	214	212	376	376	423	448	484	414
Mississippi	248	257	365	402	433	447	470	596	552
Missouri	3	3	7	7	0	0	0	0	0
Montana	1,235	1,490	1,438	1,755	1,881	1,881	2,140	2,111	2,133
Nebraska	19	17	18	22	20	22	25	23	23
New Mexico	10,352	10,674	11,812	12,609	13,598	14,571	15,560	16,967	17,547
New York	900	1,400	1,600	1,900	2,200	2,076	2,636	2,969	3,423
North Dakota	18	34	34	23	78	80	65	66	51
Ohio	10,382	11,509	13,032	14,197	15,827	17,251	19,405	22,112	25,762
Oklahoma	9,769	10,436	11,570	12,861	14,417	16,419	18,451	20,742	22,230
Oregon	0	0	0	0	5	5	9	6	8
Pennsylvania	17,300	17,500	17,396	18,900	19,800	19,900	21,500	23,000	24,000
South Dakota	20	20	20	20	10	13	39	38	40
Tennessee	5	7	49	75	184	177	255	340	540
Texas	26,184	27,762	31,512	33,157	35,650	37,724	40,612	44,130	44,699
Utah	271	71	535	171	182	200	226	282	322
Virginia	186	180	202	227	258	258	288	298	299
West Virginia	21,700	22,100	22,600	23,575	24,725	25,900	27,200	27,450	29,675
Wyoming	950	990	995	888	1,236	1,264	1,243	1,827	1,986
Total	132,095	137,443	148,018	157,454	169,891	182,004	198,839	210,753	221,952

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section III
Table 18

PRODUCING OIL WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	221	281	334	380
Alaska	--	--	--	--	--	--	--	--	--	--	--	2	5	17
Arizona	--	--	--	--	--	--	--	--	--	--	--	1	2	3
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021
Florida	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	11	11	11	11
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3,086
Missouri	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	107	127	121	120
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571
Nevada	--	--	--	--	--	--	(1)	--	--	--	2	2	2	2
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579
North Dakota	--	--	--	(1)	(1)	83	257	460	570	789	920	1,150	1,390	1,451
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260
South Dakota	--	--	--	--	--	--	(1)	(1)	(1)	(1)	3	4	14	19
Tennessee	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	35	35	34	27
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934
Utah	--	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	225	519	697	796
Virginia	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	4	6	7	5
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475
Other	140	160	190	230	270	297	333	364	366	422	--	1 (2)	1 (2)	1 (2)
Total	426,280	437,880	448,680	465,870	474,990	488,520	498,940	511,200	524,010	551,170	569,273	574,905	583,141	591,158

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(1) Included in Other
(2) Washington

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section III
Table 18a

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	418	449	502	519	518	524	532	546	550	562	556	544	586	582	608	633
Alaska	45	52	54	56	57	72	94	163	183	202	173	193	192	199	205	181
Arizona	5	4	9	8	10	6	20	22	29	28	30	28	28	25	28	27
Arkansas	6,330	5,918	6,010	6,018	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529
California	38,184	39,265	40,233	40,916	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534
Colorado	2,023	2,110	2,030	1,981	1,938	2,371	1,730	1,825	1,811	1,770	1,785	1,897	2,004	2,174	2,450	2,827
Florida	11	11	12	19	38	42	41	44	45	60	78	142	147	136	143	143
Illinois	31,911	30,174	30,149	29,500	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527
Indiana	5,679	5,607	5,951	5,381	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891
Kansas	40,933	46,750	46,951	46,715	47,354	46,016	47,597	45,145	44,665	43,490	42,180	41,055	41,520	41,755	41,945	42,240
Kentucky	19,857	19,448	14,903	15,226	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970
Louisiana	24,740	26,382	27,638	29,452	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274
Michigan	4,301	4,282	4,234	4,151	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770
Mississippi	2,819	2,560	2,682	2,580	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212
Missouri	116	105	105	100	142	150	146	128	164	126	139	137	135	157	163	173
Montana	3,342	3,692	3,642	3,329	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309
Nebraska	1,860	1,764	1,726	1,711	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291
Nevada	4	4	4	5	9	10	13	13	11	9	6	6	6	9	6	12
New Mexico	15,295	16,102	16,796	17,570	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939
New York	17,829	13,537	13,431	12,526	12,304	11,832	4,712	4,201	5,263	5,861	5,860	5,427	5,200	5,475	4,975	5,100
North Dakota	1,683	1,794	1,824	1,881	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568
Ohio	16,682	16,867	14,605	13,752	13,947	14,192	14,638	15,480	15,737	15,860	14,771	15,222	15,236	16,658	16,611	16,761
Oklahoma	79,387	80,799	81,475	80,511	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543
Pennsylvania	63,576	59,673	54,062	53,065	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805
South Dakota	19	19	24	24	28	29	28	27	26	26	33	29	27	31	38	43
Tennessee	30	40	39	38	33	32	33	32	35	59	78	73	67	154	172	215
Texas	196,396	197,659	198,070	199,119	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546
Utah	795	852	835	840	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188
Virginia	5	5	6	8	6	2	4	5	5	5	1	1	--	3	7	7
West Virginia	12,762	12,880	13,044	13,205	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800
Wyoming	7,880	7,581	7,611	8,019	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	594,917	596,385	588,657	588,225	589,203	583,302	565,289	553,920	542,227	530,990	517,318	508,443	497,378	497,631	500,333	499,110

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section III
Table 18b

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1977	1978	1979	1980	1981	1982	1983
Alabama	631	648	660	684	692	719	741
Alaska	298	348	396	443	700	760	672
Arizona	29	34	35	31	35	36	34
Arkansas	7,756	7,866	8,115	8,104	8,249	8,629	8,370
California	43,525	43,375	43,838	45,086	47,362	47,231	47,197
Colorado	3,027	3,260	3,450	3,490	2,898	3,113	4,591
Florida	140	111	115	121	117	123	137
Illinois	23,752	23,900	24,067	24,871	26,100	27,600	28,967
Indiana	5,076	5,296	5,452	5,452	5,715	6,047	6,465
Kansas	42,450	42,900	43,200	48,037	42,402	46,189	49,348
Kentucky	14,046	14,097	14,172	14,539	14,585	15,109	15,562
Louisiana	23,881	24,500	24,767	26,014	25,320	22,380	23,376
Michigan	3,903	3,890	3,890	4,900	4,417	4,536	4,913
Mississippi	2,806	2,956	3,263	3,676	3,154	2,640	2,727
Missouri	175	167	251	258	421	499	552
Montana	3,330	3,400	3,661	3,618	3,968	4,311	4,675
Nebraska	1,382	1,469	1,551	1,693	1,870	2,006	2,100
Nevada	18	16	20	20	(1)	(1)	(1)
New Mexico	14,338	17,453	21,526	15,103	16,289	16,526	17,409
New York	4,800	5,039	5,100	5,220	5,300	5,320	5,432
North Dakota	1,608	2,305	2,624	2,938	2,570	2,870	3,734
Ohio	17,338	18,289	19,596	21,132	22,441	24,752	26,287
Oklahoma	73,752	75,308	76,505	81,296	82,639	91,745	95,868
Pennsylvania	28,400	27,768	27,925	25,991	26,138	25,285	24,657
South Dakota	69	85	94	97	120	130	140
Tennessee	283	311	351	435	489	650	693
Texas	163,746	166,365	169,826	175,673	180,627	187,626	195,595
Utah	1,448	1,291	1,560	1,714	1,543	1,583	1,634
Virginia	4	5	7	8	(1)	(1)	(1)
West Virginia	13,900	14,100	14,250	14,425	14,700	14,900	15,300
Wyoming	11,123	10,200	11,128	12,648	11,574	11,792	11,349
Other	0	0	0	0	39	50	55
Total	507,034	516,752	531,395	547,717	557,009(2)	580,142(2)	603,290(2)

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(1) Included in other.

(2) In 1981, total includes 4,535 producing wells in federal waters, in 1982 4,985 in federal waters, and in 1983 4,710 in federal waters.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1983 -- World Oil, Forecast Review Issue

Producing Oil Wells by State and by Type
(as of December 31)

	1947		1948		1949		1950		1951		1952	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	33	0	33	0	39	0	58	0	75	4	92
Alaska	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	378	2,992	340	3,040	291	3,076	361	3,266	312	3,329	350	3,758
California	2,363	22,792	2,136	24,413	2,373	22,127	2,143	25,963	1,934	27,656	1,866	29,005
Colorado	127	411	113	611	87	662	191	572	135	700	85	886
Florida	4	1	5	3	5	6	1	11	1	11	1	11
Illinois	68	28,405	48	30,261	71	31,169	16	33,113	12	32,873	7	33,727
Indiana	2	2,807	18	3,252	35	3,739	12	3,946	18	4,222	22	4,473
Kansas	85	26,846	143	24,975	62	29,033	73	30,093	45	31,215	58	32,018
Kentucky	0	14,509	0	14,554	0	14,895	5	15,260	36	15,524	0	15,806
Louisiana	3,168	4,516	3,367	5,508	3,320	6,689	3,477	7,667	3,417	8,106	3,591	8,770
Michigan	276	3,356	296	3,131	387	3,268	141	3,577	155	3,730	134	3,858
Mississippi	416	636	495	737	476	886	280	1,168	126	1,466	206	1,504
Missouri	0	36	0	48	0	88	0	46	0	43	0	70
Montana	24	2,455	24	3,140	39	2,865	20	3,086	22	3,188	30	3,286
Nebraska	0	55	0	46	0	62	35	107	27	181	2	221
Nevada	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	3,636	1,395	3,288	2,004	3,014	2,509	3,232	2,597	3,283	2,768	3,462	3,141
New York	0	23,000	0	23,000	0	23,400	0	23,200	0	23,100	0	23,000
North Dakota	0	0	0	0	0	0	0	0	2	0	68	17
Ohio	50	22,825	65	22,945	60	21,740	50	19,750	50	18,450	40	19,410
Oklahoma	1,485	50,405	1,380	51,731	1,426	52,934	1,740	55,086	1,605	56,715	1,485	58,762
Pennsylvania	0	82,800	0	84,000	0	82,100	0	82,200	0	81,200	0	81,200
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	0	22	0	29	0	35	0	36	0	34	0	35
Texas	37,070	67,909	37,970	71,673	39,203	76,280	41,949	81,322	44,016	86,293	45,784	90,615
Utah	0	0	2	1	22	0	3	30	4	38	10	51
Virginia	0	12	0	15	0	15	0	15	0	15	0	25
Washington	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	17,000	0	16,200	0	15,900	0	15,200	0	14,600	0	14,200
Wyoming	247	3,905	336	4,222	464	4,452	323	4,887	313	5,292	242	4,614
U.S. Total	49,399	379,123	50,036	389,572	51,335	397,969	54,052	412,256	55,513	420,824	57,447	432,375

Source: World Oil Magazine

Section III
Table 19a

Producing Oil Wells by State and by Type
(as of December 31)

	1953		1954		1955		1956		1957		1958	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	2	110	5	108	11	102	62	97	35	181	27	227
Alaska	0	0	0	0	0	0	0	0	0	0	1	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	336	3,699	270	3,925	410	4,057	382	4,419	246	5,173	232	5,417
California	1,834	29,950	1,770	31,303	1,759	32,571	1,599	34,625	1,496	35,756	1,290	35,170
Colorado	132	1,098	97	1,633	345	1,784	433	1,724	572	1,612	573	1,625
Florida	0	12	0	13	0	11	0	11	0	11	0	11
Illinois	5	34,417	10	35,155	27	36,758	29	37,689	213	37,828	231	38,366
Indiana	9	4,825	3	4,954	23	5,011	19	5,160	300	4,816	173	5,094
Kansas	42	33,272	31	34,523	121	35,452	127	36,986	103	38,466	131	39,133
Kentucky	0	16,234	0	16,593	12	17,008	21	17,681	19	18,238	8	18,982
Louisiana	4,354	8,583	4,937	9,588	5,855	10,817	6,998	11,737	7,991	12,224	8,537	13,176
Michigan	123	3,863	190	3,842	550	3,689	550	3,453	615	3,397	41	4,198
Mississippi	307	1,536	319	1,547	497	1,617	628	1,801	327	2,005	352	2,087
Missouri	0	91	0	89	0	97	0	130	0	120	0	119
Montana	51	3,421	110	3,641	311	3,587	512	3,516	585	3,261	407	3,210
Nebraska	0	302	0	547	31	932	19	1,602	87	1,616	26	1,320
Nevada	0	0	0	1	0	3	0	3	0	2	0	2
New Mexico	3,644	3,606	3,710	3,656	3,502	4,727	3,563	5,424	4,259	5,809	3,972	6,839
New York	0	23,000	0	22,500	0	22,300	0	21,300	0	19,200	0	19,765
North Dakota	179	73	353	88	444	92	458	313	543	395	503	640
Ohio	70	19,400	90	15,210	80	14,660	75	14,745	130	14,700	175	14,850
Oklahoma	2,120	60,956	2,860	64,551	3,180	71,430	2,773	73,019	2,264	75,623	2,771	76,981
Pennsylvania	0	80,500	0	80,000	0	78,500	0	76,500	0	69,700	0	68,050
South Dakota	0	1	0	2	0	3	0	3	0	3	1	3
Tennessee	0	29	0	44	0	25	0	40	0	35	0	31
Texas	45,976	94,884	47,032	100,712	47,669	108,811	48,513	117,473	48,098	125,861	47,897	131,781
Utah	3	66	1	81	2	68	23	87	129	210	307	241
Virginia	0	25	0	25	0	25	0	20	0	0	0	0
Washington	0	0	0	0	0	0	0	0	2	0	1	0
West Virginia	0	13,600	0	13,000	0	12,500	0	12,000	0	12,700	0	12,740
Wyoming	278	4,841	368	5,321	535	5,681	473	5,959	513	6,074	467	6,334
U.S. Total	59,465	442,394	62,156	454,652	65,364	472,318	67,257	487,517	68,527	495,016	68,123	506,392

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1959		1960		1961		1962		1963		1964	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	29	244	0	380	0	414	0	447	0	499	0	479
Alaska	5	0	18	0	45	0	50	2	48	7	37	17
Arizona	1	0	2	1	0	4	0	13	0	5	0	10
Arkansas	178	5,881	183	5,810	190	6,267	543	5,301	160	5,239	150	5,950
California	1,115	36,101	1,196	36,388	1,033	37,203	1,213	37,980	1,251	39,099	1,270	39,510
Colorado	382	1,701	127	1,892	115	1,864	110	1,865	72	1,888	58	1,832
Florida	0	11	0	11	0	11	0	11	0	12	0	16
Illinois	128	38,736	67	38,239	74	39,381	0	30,196	0	30,114	0	29,319
Indiana	169	5,303	86	5,381	84	5,792	0	5,887	0	5,937	0	5,949
Kansas	243	39,921	312	46,270	270	46,920	275	47,286	278	47,587	300	48,700
Kentucky	19	21,137	13	20,733	15	20,746	0	19,800	0	19,000	0	15,726
Louisiana	9,280	13,805	8,896	14,389	9,420	14,612	10,951	14,691	11,692	16,037	12,401	17,260
Michigan	59	4,332	850	3,704	931	3,413	832	3,538	915	3,188	915	3,660
Mississippi	383	2,236	277	2,347	289	2,408	525	2,035	554	2,139	342	2,238
Missouri	0	95	0	121	0	120	0	111	0	118	0	87
Montana	331	3,375	33	3,478	33	3,404	41	3,659	36	3,552	34	3,960
Nebraska	21	1,473	15	1,627	18	1,967	0	1,855	5	1,769	5	1,733
Nevada	0	2	0	2	0	2	0	2	0	4	0	5
New Mexico	4,530	7,657	5,323	7,261	4,880	8,857	5,324	8,909	4,861	9,003	4,814	9,828
New York	0	19,275	0	19,000	0	18,000	0	13,500	0	13,100	0	12,800
North Dakota	392	988	74	1,343	92	1,453	567	1,015	600	1,206	453	1,428
Ohio	160	14,768	150	14,560	145	14,305	150	14,350	80	14,525	50	13,683
Oklahoma	2,987	78,128	3,147	80,459	3,775	81,048	3,750	77,795	3,840	77,686	3,857	76,602
Pennsylvania	0	67,580	10	65,000	0	61,896	0	56,900	20	55,360	22	53,043
South Dakota	0	11	0	19	0	24	0	18	0	24	0	24
Tennessee	0	30	0	27	0	30	0	30	0	40	0	41
Texas	47,366	138,298	45,722	143,789	44,936	147,587	44,202	149,526	42,218	152,251	40,481	154,088
Utah	346	317	352	404	349	602	320	500	318	520	15	926
Virginia	0	0	0	8	0	8	0	5	0	6	0	6
Washington	1	0	1	0	1	0	0	0	0	0	0	0
West Virginia	0	12,885	0	12,950	0	12,350	0	12,800	0	13,000	0	13,200
Wyoming	489	6,629	413	7,117	408	7,417	400	9,000	455	7,459	450	7,481
U.S. Total	68,614	520,919	67,267	532,710	67,103	538,105	69,253	519,027	67,403	520,374	65,654	519,601

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1965		1966		1967		1968		1969		1970	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	530	0	520	4	529	5	542	7	467	8	468
Alaska	25	35	42	15	70	19	93	86	58	135	41	120
Arizona	6	4	6	4	(1)	(1)	0	(1)	0	0	(1)	(1)
Arkansas	212	5,730	104	5,453	197	6,237	83	5,896	106	6,012	100	6,100
California	1,204	40,323	1,176	40,516	1,026	40,597	1,428	40,103	1,390	39,505	1,350	37,718
Colorado	61	1,771	42	1,649	37	1,773	33	1,782	30	1,748	37	1,733
Florida	2	36	0	41	(1)	(1)	0	(1)	0	0	(1)	(1)
Illinois	0	29,012	20	28,550	0	27,874	0	27,242	0	26,737	0	26,298
Indiana	0	4,149	0	4,149	0	3,637	0	3,621	0	3,646	0	3,607
Kansas	300	46,200	300	40,622	400	45,925	400	44,755	350	44,390	350	44,315
Kentucky	0	15,600	0	16,000	500	13,500	609	13,000	532	13,220	502	14,000
Louisiana	12,982	17,921	12,338	18,546	12,435	18,511	11,018	19,015	10,756	18,861	9,064	19,214
Michigan	890	3,153	800	3,204	77	3,291	686	3,587	551	3,821	677	3,196
Mississippi	354	2,159	362	2,187	348	2,172	328	2,271	303	2,245	290	2,276
Missouri	0	100	0	142	(1)	(1)	0	(1)	0	0	(1)	(1)
Montana	46	3,677	11	3,582	38	3,724	14	3,252	25	3,460	3	3,159
Nebraska	5	1,614	0	1,493	4	1,457	3	1,404	2	1,369	6	1,299
Nevada	0	9	0	10	(1)	(1)	0	(1)	0	0	(1)	(1)
New Mexico	4,682	9,753	3,499	10,798	3,645	10,712	3,277	11,106	3,186	11,152	3,198	11,075
New York	0	11,700	100	12,200	100	12,000	0	11,500	0	9,500	0	5,000
North Dakota	524	1,439	315	1,718	250	1,513	224	1,503	495	1,155	229	1,506
Ohio	60	13,873	50	14,133	50	14,240	60	14,347	80	14,584	60	14,727
Oklahoma	3,800	76,200	4,000	77,477	4,000	76,971	4,000	76,999	4,000	76,947	4,000	74,212
Pennsylvania	18	52,713	75	50,570	50	45,376	50	35,950	50	33,950	70	30,555
South Dakota	0	29	0	29	(1)	(1)	0	(1)	0	0	(1)	(1)
Tennessee	0	42	0	34	(1)	(1)	0	(1)	0	0	(1)	(1)
Texas	39,052	155,618	36,160	155,281	33,060	155,761	31,525	152,452	28,934	149,837	26,199	146,014
Utah	9	852	10	861	15	981	15	881	15	867	23	884
Virginia	0	7	0	2	(1)	(1)	0	(1)	0	0	(1)	(1)
West Virginia	0	13,400	0	13,300	0	14,250	0	14,000	0	13,800	0	13,700
Wyoming	400	7,594	422	8,012	456	8,091	527	8,396	687	8,396	700	8,800
Other	0	0	0	0	3	263	0	263	0	289	21	273
U.S. Total	64,632	515,243	59,832	511,098	57,465	509,404	54,378	493,593	51,557	486,083	46,928	470,249

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(1) Included in other

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1971		1972		1973		1974		1975		1976	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	14	524	27	499	44	510	35	384	36	530	40	593
Alaska	53	130	58	139	52	140	42	186	36	164	38	152
Arizona	0	29	1	22	1	22	0	28	0	28	0	27
Arkansas	60	7,086	69	7,168	96	6,328	123	6,993	125	6,947	140	7,072
California	1,300	39,298	421	39,865	496	42,847	453	39,777	370	40,569	496	44,287
Colorado	50	1,845	110	1,709	134	1,721	119	1,921	108	2,232	111	2,265
Florida	8	65	68	67	81	64	63	70	72	72	66	78
Illinois	0	25,369	0	24,736	0	24,307	0	23,718	0	23,360	0	23,509
Indiana	0	3,600	0	4,379	0	4,323	0	4,376	0	4,380	0	4,798
Kansas	325	41,960	325	40,730	319	42,181	276	41,480	250	41,695	200	42,050
Kentucky	557	14,100	560	14,056	100	14,316	0	14,129	0	14,231	0	13,970
Louisiana	7,534	18,216	7,388	19,208	6,203	21,666	6,545	21,428	5,979	21,755	6,128	20,272
Michigan	650	3,200	668	3,129	659	3,082	682	3,132	548	3,107	608	3,162
Mississippi	300	2,255	275	2,298	202	2,108	180	2,074	160	2,077	149	2,063
Missouri	0	139	0	138	0	135	0	137	0	157	0	145
Montana	23	3,707	19	3,196	3	3,533	7	3,021	7	3,143	12	3,298
Nebraska	4	1,190	4	1,176	0	1,118	0	1,109	0	1,127	0	1,292
Nevada	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	2,388	10,997	2,386	11,048	2,300	11,138	2,143	11,139	2,255	11,395	2,313	11,533
New York	0	5,860	0	5,500	0	5,400	0	5,475	0	4,975	0	5,000
North Dakota	263	1,453	225	1,340	224	1,237	243	1,245	236	1,248	269	1,302
Ohio	50	14,581	295	14,491	304	14,847	302	14,847	288	14,877	310	15,143
Oklahoma	4,000	71,549	4,000	69,807	3,943	69,082	3,879	67,969	4,089	67,568	4,131	68,257
Pennsylvania	70	29,731	80	26,949	75	32,521	75	30,825	50	32,200	65	32,000
South Dakota	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Tennessee	12	59	16	40	6	61	31	56	55	94	75	122
Texas	24,305	149,902	22,680	148,689	19,998	139,314	20,063	140,011	18,584	152,462	16,997	143,678
Utah	46	828	87	812	82	1,362	230	989	121	935	100	1,088
Virginia	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Washington	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
West Virginia	0	13,500	0	13,530	0	13,600	0	13,650	0	13,750	0	13,800
Wyoming	650	8,600	600	8,350	535	7,107	606	8,050	662	8,788	720	9,307
Other	0	36	0	72	10	31	9	28	9	28	1	17
U.S. Total	42,662	469,809	40,362	463,143	35,867	464,101	36,105	458,247	3[illegible],040	473,900	32,969	470,299

(1) Included in other

Source: World Oil Magazine

Section III
Table 19e

Producing Oil Wells by State and by Type
(as of December 31)

	1977		1978		1979		1980		1981		1982	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	40	597	55	575	57	457	57	612	103	589	122	597
Alaska	135	156	188	178	240	160	412	230	296	404	330	430
Arizona	0	28	0	31	0	35	0	32	0	35	0	36
Arkansas	155	7,348	197	7,356	202	7,496	140	7,964	156	8,093	173	8,456
California	481	42,973	517	44,482	1,635	43,039	1,667	43,924	1,592	45,770	1,470	45,761
Colorado	213	2,832	226	3,001	183	3,219	188	3,302	151	2,747	218	2,895
Florida	144	0	50	65	43	72	40	80	42	75	50	73
Illinois	0	23,828	0	23,869	0	24,067	0	24,745	0	26,100	0	27,600
Indiana	0	4,891	0	5,076	0	5,296	0	5,452	0	5,715	0	6,047
Kansas	200	42,250	204	43,054	223	47,156	60	47,397	42	42,360	46	46,143
Kentucky	0	14,046	0	14,149	0	14,097	0	14,517	0	14,585	0	15,109
Louisiana	2,228	21,653	2,244	22,256	4,251	20,516	4,226	21,788	3,871	21,449	2,001	20,379
Michigan	603	3,300	547	3,343	547	3,343	585	3,524	631	3,786	636	3,900
Mississippi	152	2,108	88	2,166	91	2,465	120	2,511	144	3,010	132	2,508
Missouri	0	161	0	161	0	188	20	238	0	421	0	499
Montana	70	3,284	328	2,947	375	3,198	325	3,303	375	3,593	350	3,961
Nebraska	0	1,369	0	1,455	0	1,535	4	1,675	0	1,870	0	2,006
Nevada	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
New Mexico	2,405	11,860	2,144	12,254	2,723	12,322	2,565	13,181	2,986	13,303	3,068	13,458
New York	0	4,800	0	4,900	0	4,800	0	5,000	0	5,300	0	5,320
North Dakota	297	1,341	358	1,374	404	1,504	554	1,736	622	1,948	800	2,070
Ohio	347	17,016	362	17,735	384	18,793	409	20,042	447	21,994	470	24,282
Oklahoma	4,203	69,450	4,247	70,623	4,345	72,160	4,332	74,131	4,563	78,076	5,046	86,699
Pennsylvania	50	28,755	50	28,350	56	27,712	56	27,869	52	26,086	52	25,233
South Dakota	(1)	(1)	0	(1)	3	85	3	115	0	120	0	130
Tennessee	115	157	119	160	144	194	106	335	117	372	120	530
Texas	16,168	147,647	16,109	149,708	16,665	151,458	16,751	157,940	17,351	163,276	16,170	171,456
U.S. Federal Waters	2,702	829	2,624	805	915	2,344	917	2,349	3,267	1,268	3,589	1,396
Utah	369	494	552	739	576	770	436	1,042	419	1,124	396	1,187
Virginia	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
Washington	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
West Virginia	0	13,900	0	14,100	0	14,225	0	14,425	0	14,700	0	14,900
Wyoming	725	9,378	718	9,293	724	9,335	736	9,491	833	10,741	825	10,967
Other	13	74	0	106	0	28	0	31	0	39	1	49
U.S. Total	31,815	476,525	31,927	484,311	34,786	492,069	34,529	508,981	38,060	518,949	36,065	544,077

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(1) Included in other

Source: World Oil Magazine

Section III
Table 19f

Producing Oil Wells by State and by Type
(as of December 31)

	1983	
	Flowing	Artificial Lift
Alabama	102	639
Alaska	406	266
Arizona	0	34
Arkansas	168	8,202
California	1,482	45,715
Colorado	304	4,287
Florida	62	75
Illinois	0	28,967
Indiana	0	6,465
Kansas	53	49,295
Kentucky	0	15,562
Louisiana	2,110	21,266
Michigan	663	4,250
Mississippi	135	2,592
Missouri	0	552
Montana	400	4,275
Nebraska	0	2,100
Nevada	0	(1)
New Mexico	3,161	14,248
New York	7	5,425
North Dakota	717	3,017
Ohio	523	25,764
Oklahoma	4,794	91,074
Pennsylvania	47	24,610
South Dakota	0	140
Tennessee	126	567
Texas	15,182	180,413
U.S. Federal Waters	1,370	3,340
Utah	388	1,246
Virginia	0	(1)
Washington	0	(1)
West Virginia	0	15,300
Wyoming	794	10,555
Other	0	55
U.S. Total	32,994	570,296

(1) Included in other

Source: World Oil Magazine

PRODUCING OIL WELLS IN FREE WORLD
(As of July 1)

COUNTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978
Australia	386	402	398	394	373	361	378	359	375
Brunei-Malaysia	592	537	558	126	519	504	574	648	712
India	200	1,545	1,545	1,500	2,500	1,545	1,548	1,600	1,600
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018	3,162	3,421	3,644
Japan	1,725	2,341	1,078	1,084	1,044	1,009	464	448	542
TOTAL ASIA-PACIFIC	5,200	7,046	6,692	6,479	6,861	7,156	6,645	7,006	7,407
Austria	1,268	1,298	1,270	1,250	1,271	1,291	1,222	1,219	1,250
Netherlands	369	351	319	319	347	368	392	393	416
Norway	—	1	4	4	6	24	29	36	50
United Kingdom	60	55	56	63	57	77	90	135	109
West Germany	3,065	3,078	2,833	2,782	2,699	2,699	2,827	2,933	2,933
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981	6,109	6,266	5,208
Abu Dhabi	94	98	115	142	160	216	209	232	240
Iran	266	280	313	350	369	425	428	518	551
Iraq	113	122	132	133	156	156	170	200	250
Kuwait	741	692	692	692	692	692	596	586	586
Neutral Zone	450	480	440	362	449	449	476	459	455
Qatar	69	80	84	92	81	88	77	77	95
Saudi Arabia	423	425	535	627	670	711	701	754	875
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919	3,007	4,161	4,307
Algeria	775	497	524	574	826	984	826	801	989
Egypt	332	204	245	261	437	319	376	401	430
Gabon	100	101	114	122	137	184	212	240	211
Libya	1,083	995	763	895	979	851	877	797	817
Nigeria	364	570	774	898	1,088	1,052	1,259	1,374	1,322
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699	3,804	3,956	4,160
Mexico	3,127	3,908	3,412	4,345	3,301	3,285	3,382	3,419	4,145
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718	10,720	1,932	11,909
United States	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752
Canada	23,675	22,779	20,911	22,996	21,202	18,573	25,055	26,112	25,800
TOTAL WESTERN HEMISPHERE	582,649	569,172	558,947	551,543	548,894	546,866	574,224	555,034	575,695
TOTAL FREE WORLD	598,852	586,949	576,226	570,094	568,806	567,621	593,789	576,423	596,777

Source: United States, U.S. Department of Energy
Rest of World, Oil and Gas Journal

Section III
Table 20a

PRODUCING OIL WELLS IN FREE WORLD
(As of July 1)

COUNTRY	1979	1980	1981	1982	1983	1984
Australia	370	403	399	435	509	545
Brunei-Malaysia	819	808	788	843	965	1,017
India	1,600	1,600	1,600	1,560	1,560	1,560
Indonesia	3,823	3,700	4,077	4,341	4,840	4,840
Japan	507	388	382	397	370	348
TOTAL ASIA-PACIFIC	7,684	7,465	7,843	8,184	8,885	8,992
Austria	1,254	1,120	1,164	1,229	1,240	1,243
Netherlands	473	480	516	533	623	633
Norway	50	100	117	131	144	171
United Kingdom	240	290	361	379	387	535
West Germany	2,945	2,957	3,004	3,077	3,142	3,136
TOTAL WESTERN EUROPE	5,421	5,401	5,708	5,978	6,228	6,922
Abu Dhabi	250	341	277	352	222	254
Iran	547	547	530	530	530	530
Iraq	250	250	280	280	290	290
Kuwait	590	590	546	530	530	530
Neutral Zone	423	412	450	445	450	464
Qatar	95	124	128	125	125	174
Saudi Arabia	725	733	782	555	555	555
TOTAL MIDDLE EAST	4,381	4,193	4,304	4,639	4,643	4,582
Algeria	970	1,000	1,050	1,085	1,090	1,090
Egypt	432	484	450	411	500	617
Gabon	218	242	250	266	270	270
Libya	896	886	889	891	905	905
Nigeria	1,457	1,451	1,491	1,312	1,296	1,177
TOTAL AFRICA	4,372	4,522	4,672	4,565	4,860	4,937
Mexico	4,200	3,384	3,593	3,605	3,640	NA
Venezuela	12,486	5,042	13,610	14,029	11,604	13,512
United States	531,395	547,717	557,009	580,142	636,900	615,500
Canada	18,323	20,721	33,404	33,907	36,388	39,146
TOTAL WESTERN HEMISPHERE	583,748	594,741	625,056	650,162	708,342	690,169
TOTAL FREE WORLD	608,606	616,322	647,583	673,528	732,958	715,602

Source: United States, 1976-1980: U.S. Department of Energy
1981: World Oil Magazine
Rest of World, Oil and Gas Journal
1983-1984: Oil and Gas Journal

BASIC PETROLEUM DATA BOOK

SECTION IV. PRODUCTION

Table 1. World Crude Oil Production by Area

Table 2. World Crude Oil Production - Twenty Leading Nations

Table 3. U.S. Stripper Wells and Stripper Well Production

Table 4. U.S. Crude Oil Production by State

Table 5. U.S. Crude Oil Production Per Well Per Day by State

Section IV
Table 1

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Total Free World	Communist Nations	Total World
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	3,022,139
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	3,433,234
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	3,404,142
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	3,803,027
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	4,282,730
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	4,531,114
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	4,798,055
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	5,016,591
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	5,625,659
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	6,124,676
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,102	166,631	5,617,319	821,125	6,438,444
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,713	169,824	5,676,265	931,485	6,607,750
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,943	193,308	6,074,425	1,058,813	7,133,238
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	7,674,460
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	8,186,213
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	8,881,858
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	9,538,346
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	10,309,644
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	11,062,515
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	12,021,786
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	12,914,340
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	14,146,318
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	15,222,511
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	16,718,708
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	17,662,793
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	18,600,745
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	20,367,981
1974	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	20,537,727

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(1) Includes lease condensate

Source: U.S. Department of the Interior, Bureau of Mines-1947-1958: Minerals Yearbook, Annual
1959-1972: International Petroleum Annual
1973-1974: World Crude Oil Production Annual 1974, July 17, 1975

Section IV
Table 1a

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia-Pacific	Total Free World	Communist Nations	Total World
1975	3,056,779	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,174,305	4,328,030	19,502,335
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	21,191,540
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	21,900,695
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	22,158,251
1979	3,114,545	546,040	1,919,535	828,550	7,868,670	2,423,600	1,051,200	17,752,140	5,118,030	22,870,170
1980	3,146,502	521,184	2,036,058	893,406	6,735,498	2,226,378	1,000,278	16,559,304	5,206,350	21,765,654
1981	3,128,780	469,025	2,179,415	955,570	5,749,480	1,672,065	1,027,110	15,181,445	5,192,125	20,373,570
1982	3,156,715	452,965	2,255,355	1,085,145	4,581,480	1,622,790	961,410	14,116,160	5,278,995	19,395,155
1983	3,159,440	529,250	2,213,360	1,236,620	4,215,385	1,609,650	1,024,555	13,988,260	5,286,295	19,274,555

(1) Includes lease condensate

Source: U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-1983: Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION-TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1974	Nation	1975	Nation	1976
1. U.S.S.R.(1)	3,373,650	1. U.S.S.R.(1)	3,608,850	1. U.S.S.R.(1)	3,822,000
2. United States(1)	3,202,585	2. United States(1)	3,052,048	2. Saudi Arabia(2)	3,053,887
3. Saudi Arabia(2)	2,996,543	3. Saudi Arabia(2)	2,491,834	3. United States(1)	2,976,180
4. Iran	2,197,901	4. Iran	1,952,650	4. Iran	2,168,237
5. Venezuela	1,086,332	5. Venezuela	856,364	5. Venezuela	839,737
6. Kuwait(2)	830,580	6. Iraq	825,521	6. Iraq	834,810
7. Nigeria	823,347	7. Kuwait(2)	670,918	7. Nigeria	756,064
8. Iraq	720,729	8. Nigeria	651,890	8. Libya	704,011
9. Canada	616,532	9. United Arab Emirates	618,310	9. Kuwait(2)	700,000
10. United Arab Emirates	616,485	10. People's Republic of China	571,590	10. United Arab Emirates	692,106
11. Libya	555,291	11. Libya	551,150	11. People's Republic of China	645,897
12. Indonesia	501,838	12. Canada	520,666	12. Indonesia	550,319
13. People's Republic of China	474,500	13. Indonesia	477,055	13. Canada	488,680
14. Algeria	368,139	14. Algeria	350,753	14. Algeria	383,816
15. Mexico(1)	238,271	15. Mexico	294,254	15. Mexico	327,285
16. Qatar	189,348	16. Qatar	159,482	16. Qatar	178,120
17. Argentina	151,110	17. Australia	149,873	17. Australia	152,522
18. Australia	140,396	18. Argentina	144,364	18. Argentina	145,561
19. Romania	107,964	19. Oman	124,600	19. Oman	133,795
20. Oman	106,046	20. Romania	108,739	20. Egypt	120,180
TOTAL FREE WORLD	16,542,571	TOTAL FREE WORLD	15,169,574	TOTAL FREE WORLD	16,575,174
TOTAL WORLD	20,537,727	TOTAL WORLD	19,497,604	TOTAL WORLD	21,191,540

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: U.S. Energy Information Administration, World Crude Oil Production Annual

Section IV
Table 2a

WORLD CRUDE OIL PRODUCTION-TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1977	Nation	1978	Nation	1979
1. U.S.S.R.(1)	3,991,050	1. U.S.S.R.	4,093,475	1. U.S.S.R.	4,187,280
2. Saudi Arabia(2)	3,290,000	2. United States(1)	3,175,927	2. Saudi Arabia	3,376,615
3. United States(1)	3,009,265	3. Saudi Arabia(2)	3,113,470	3. United States(1)	3,114,545
4. Iran	2,080,051	4. Iran	1,900,555	4. Iraq	1,269,105
5. Iraq	909,945	5. Iraq	959,585	5. Iran	1,156,320
6. Venezuela	816,818	6. Venezuela	790,418	6. Venezuela	859,940
7. Nigeria	765,473	7. People's Republic of China	731,825	7. Nigeria	840,230
8. Libya	753,178	8. Libya	727,445	8. Kuwait	807,745
9. United Arab Emirates	729,506	9. Nigeria	697,150	9. People's Republic of China	774,530
10. People's Republic of China	653,350	10. Kuwait(2)	680,725	10. Libya	763,580
11. Kuwait(2)	650,795	11. United Arab Emirates	668,680	11. United Arab Emirates	668,315
12. Indonesia	615,123	12. Indonesia	597,505	12. Indonesia	580,715
13. Canada	482,021	13. Canada(1)	483,260	13. United Kingdom	572,320
14. Algeria	409,864	14. Algeria(1)	447,125	14. Canada(1)	546,040
15. Mexico	358,090	15. Mexico(1)	440,555	15. Mexico(1)	533,265
16. United Kingdom	271,653	16. United Kingdom	394,930	16. Algeria(1)	415,005
17. Qatar	162,316	17. Qatar	176,537	17. Neutral Zone	207,320
18. Argentina	157,248	18. Neutral Zone	170,090	18. Egypt	191,625
19. Australia	157,155	19. Egypt	169,360	19. Brunei-Malaysia	187,975
20. Egypt	150,925	20. Argentina	165,195	20. Qatar	185,420
TOTAL FREE WORLD	17,108,078	TOTAL FREE WORLD	17,195,001	TOTAL FREE WORLD	17,825,515
TOTAL WORLD	21,900,695	TOTAL WORLD	22,158,251	TOTAL WORLD	22,970,545

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: 1977-1978-U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION - TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1980	Nation	1981	Nation	1982
1. U.S.S.R.	4,282,200	1. U.S.S.R.	4,303,350	1. U.S.S.R.	4,388,760
2. Saudi Arabia (2)	3,524,946	2. Saudi Arabia (2)	3,513,125	2. United States (1)	3,156,715
3. United States (1)	3,146,502	3. United States (1)	3,128,780	3. Saudi Arabia (2)	2,304,975
4. Iraq	920,124	4. Mexico(1)	843,880	4. Mexico	1,086,970
5. Venezuela	792,390	5. Venezuela	769,420	5. Iran	808,110
6. People's Republic of China	775,188	6. People's Republic of China	738,760	6. United Kingdom	772,705
7. Nigeria	753,228	7. United Kingdom	661,015	7. China	740,585
8. Mexico (1)	708,942	8. Indonesia	585,640	8. Venezuela	690,215
9. Libya	669,780	9. United Arab Emirates	547,500	9. Indonesia	488,735
10. United Arab Emirates	622,932	10. Nigeria	527,425	10. Nigeria	472,675
11. Iran	680,292	11. Iran	504,065	11. Canada	452,965
12. United Kingdom	592,554	12. Canada (1)	469,025	12. United Arab Emirates	443,110
13. Indonesia	576,816	13. Libya	415,005	13. Libya	422,670
14. Canada (1)	521,184	14. Iraq	362,445	14. Iraq	354,780
15. Kuwait (2)	508,374	15. Kuwait (2)	345,655	15. Algeria	259,150
16. Algeria (1)	373,320	16. Algeria	293,095	16. Kuwait (2)	244,915
17. Egypt	217,770	17. Egypt	218,270	17. Egypt	242,725
18. Neutral Zone	199,104	18. Norway	182,865	18. Norway	189,070
19. Norway	193,248	19. Argentina	181,040	19. Argentina	176,660
20. Brunei-Malaysia	189,588	20. Brunei-Malaysia	156,585	20. Brunei-Malaysia	167,900
TOTAL FREE WORLD	16,559,304	TOTAL FREE WORLD	15,181,445	TOTAL FREE WORLD	14,116,160
TOTAL WORLD	21,765,654	TOTAL WORLD	20,373,570	TOTAL WORLD	19,395,155

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: Central Intelligence Agency, International Energy Statistical Review

WORLD CRUDE OIL PRODUCTION - TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1983
1. U.S.S.R.	4,363,940
2. United States(1)	3,170,999
3. Saudi Arabia (2)	1,776,455
4. Mexico	979,660
5. Iran	909,580
6. United Kingdom	839,135
7. China	769,005
8. Venezuela	653,350
9. Canada	529,250
10. Indonesia	505,525
11. Nigeria	452,965
12. United Arab Emirates	408,070
13. Libya	392,740
14. Iraq	336,530
15. Kuwait(2)	321,565
16. Algeria	255,135
17. Egypt	251,485
18. Norway	224,110
19. Brunei-Malaysia	190,895
20. Argentina	174,835
TOTAL FREE WORLD	13,988,260
TOTAL WORLD	19,274,555

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(1) Includes lease condensate
(2) Excludes Neutral Zone production

Source: U.S. - Energy Information Administration
Rest of World - Central Intelligence Agency

Section IV
Table 3

U.S. STRIPPER WELLS AND STRIPPER WELL PRODUCTION

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(1) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	392,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.9
1965	398,299	589,016	4.0	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.6	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392,191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7
1981	409,539	426,502	2.9	3,128,624	13.1
1982	416,493	441,951	2.9	3,156,715	14.0
1983	441,501	462,013	2.9	3,159,440	14.6

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(1) Includes lease condensate

Source: National Stripper Well Survey
Total Crude Oil Production, Department of Energy

Section IV
Table 4

U.S. CRUDE OIL PRODUCTION(1) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524	7,329
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	187	559
Arizona	-	-	-	-	-	-	-	-	-	-	-	12	25	73
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329	30,117
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946	305,352
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440	47,469
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424	369
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,083	80,275	76,727	77,341
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554	12,054
Kansas	105,132	110,908	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543	113,453
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272	21,147
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666	400,832
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439	15,899
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620	51,673
Missouri	55	31	49	32	24	21	39	96	72	65	65	84	75	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857	30,240
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881	23,825
Nevada	-	-	-	-	-	-	-	33	64	64	44	40	32	27
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,893	94,759	98,515	105,692	107,380
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970	1,813
North Dakota	-	-	-	-	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824	21,992
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,880	4,353	4,785	5,478	6,260	5,978	5,405
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,351	202,817	215,862	214,661	200,699	198,090	192,913
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,170	6,009
South Dakota	-	-	-	-	-	-	-	37	30	32	54	58	151	281
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6	20
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978	927,479
Utah	-	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959	37,594
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6	2
Washington	-	-	-	-	-	-	-	-	-	-	5	4	1	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184	2,300
Wyoming	44,772	55,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050	133,910
Total	1,856,987	2,020,185	1,841,940	1,973,574	2,247,711	2,289,836	2,357,082	2,314,988	2,484,428	2,617,283	2,616,901	2,448,987	2,574,590	2,574,933
Daily Average	5,088	5,520	5,046	5,407	6,158	6,256	6,458	6,342	6,807	7,151	7,170	6,710	7,054	7,035

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IV
Table 4a

U.S. CRUDE OIL PRODUCTION(1) BY STATES
(Thousand of Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934	11,677
Alaska	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893	72,323
Arizona	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993	804
Arkansas	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519	18,016
California	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022	336,075
Colorado	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015	36,590
Florida	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897	32,695
Illinois	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874	30,669
Indiana	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130	5,312
Kansas	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744	66,227
Kentucky	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702	8,687
Louisiana	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827	831,524
Michigan	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990	14,614
Mississippi	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100	56,102
Missouri	72	55	53	65	73	97	75	65	67	66	66	60	60
Montana	30,906	31,648	30,870	30,647	32,778	35,380	34,959	48,460	43,954	37,879	34,599	33,904	34,620
Nebraska	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106	11,451	10,062	8,705	7,240
Nevada	154	141	118	255	209	307	279	271	223	149	113	100	96
New Mexico	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525	100,986
New York	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256	1,194	1,126	1,018	967
North Dakota	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624	20,235
Ohio	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358	8,796
Oklahoma	193,081	202,732	201,962	202,524	203,441	224,839	230,749	221,623	224,729	223,574	213,313	207,633	191,204
Pennsylvania	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441	3,282
South Dakota	233	169	215	247	219	239	211	187	158	160	233	219	275
Tennessee	17	14	16	10	11	7	7	6	32	309	398	198	201
Texas	939,191	943,328	977,835	989,525	1,057,706	1,056,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,685	1,294,671
Utah	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570	32,656
Virginia	2	3	3	6	4	1	3	3	1	1	1	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677	2,385
Wyoming	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011	141,914
Total	2,621,758	2,676,189	2,752,723	2,786,822	2,848,514	3,027,763	3,215,742	3,329,042	3,371,751	3,517,450	3,453,914	3,455,368	3,360,903
Daily Average	7,183	7,332	7,542	7,614	7,804	8,295	8,810	9,096	9,238	9,637	9,463	9,441	9,208

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IV
Table 4b

U.S. CRUDE OIL PRODUCTION(1) BY STATES
(Thousand of Barrels)

STATE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	13,323	13,477	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746
Alaska	70,603	69,834	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527
Arizona	740	635	519	427	418	472	406	357	335	237
Arkansas	16,527	16,133	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849
California	323,003	322,199	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688
Colorado	37,508	38,089	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050
Florida	36,351	41,877	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476
Illinois	27,553	26,067	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200
Indiana	4,919	4,632	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321
Kansas	61,691	59,106	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594
Kentucky	7,837	7,556	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886
Louisiana	737,324	650,840	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569
Michigan	18,021	24,420	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736
Mississippi	50,779	46,614	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455
Missouri	56	57	61	60	54	91	130	226	202	269
Montana	34,554	32,844	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225
Nebraska	6,611	6,120	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380
Nevada	129	115	143	661	1,156	1,235	880	700	613	810
New Mexico	98,695	95,063	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169
New York	896	875	857	824	852	855	824	841	834	831
North Dakota	19,697	20,452	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690
Ohio	9,088	9,578	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971
Oklahoma	177,785	163,123	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604
Pennsylvania	3,478	3,264	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282
South Dakota	494	472	447	632	869	846	765	973	1,158	1,172
Tennessee	769	682	598	820	593	614	743	918	1,132	1,056
Texas	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676
Utah	39,363	42,301	34,304	33,113	31,368	27,728	24,978	25,860	22,440	29,534
Virginia	3	3	3	2	2	4	10	13	49	65
Washington	-	-	-	-	-	-	-	-	-	
West Virginia	2,665	2,479	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628
Wyoming	139,997	135,943	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303
Total	3,202,585	3,056,779	2,976,180	3,009,265	3,178,216	3,121,310	3,146,365	3,128,624	3,156,715	3,170,999
Daily Average	8,774	8,374	8,132	8,245	8,707	8,552	8,597	8,572	8,649	8,688

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(1) Includes Lease Condensate

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1983: U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	55.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	170.8	138.9
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	7.1	6.8	6.6	6.2	6.0	6.0	5.7	6.1	7.5	7.4	6.7	6.9	6.6	6.6
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	8.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7
New York	.6	.6	.5	.5	.5	.5	.5	.4	.4	.4	.4	.2	.3	.3
North Dakota	-	-	-	-	-	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3
Ohio	.4	.5	.5	.5	.5	.5	.6	.7	.8	.9	1.0	1.2	1.0	.9
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9
Pennsylvania	.4	.4	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.2	.2
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	21.1	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3
Utah	-	-	-	-	-	-	-	-	-	-	75.7	182.7	180.1	137.6
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	.4	.5	.5	.5	.5	.5	.6	.6	.5	.5	.5	.5	.5	.5
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	42.9	45.4	42.0	34.1	12.0
Total	12.0	12.8	11.4	11.8	13.1	13.0	13.1	12.6	13.2	13.3	12.8	11.7	12.2	12.0

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

Section IV
Table 5a

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	47.6	47.2	52.8	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5
Alaska	559.2	573.6	555.2	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4
Arizona	-	21.4	28.7	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5
Arkansas	12.6	12.4	12.6	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3
California	21.6	21.9	20.7	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4
Colorado	63.4	56.3	50.7	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2
Florida	-	104.4	110.5	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8
Illinois	6.6	6.9	6.8	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1
Indiana	5.8	5.8	5.6	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1
Kansas	7.6	7.0	6.4	6.2	6.1	6.1	5.8	5.6	5.4	5.3	5.0	4.8	4.4	4.1
Kentucky	2.5	2.5	2.9	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5
Louisiana	47.1	51.1	52.2	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3
Michigan	12.0	10.9	10.3	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4
Mississippi	50.7	56.8	61.3	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0
Missouri	-	1.4	1.4	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1
Montana	24.0	24.7	23.1	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8
Nebraska	38.9	37.6	34.3	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2
Nevada	-	96.6	80.8	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1
New Mexico	20.8	19.1	18.3	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8
New York	.2	.3	.3	.4	.4	.4	1.1	.9	.7	.6	.5	.5	.5	.5
North Dakota	41.4	39.7	37.9	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3
Ohio	.9	.9	1.1	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6
Oklahoma	6.7	6.9	6.8	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7
Pennsylvania	.2	.2	.2	.3	.3	.2	.3	.3	.3	.3	.3	.3	.3	.3
South Dakota	-	24.4	27.4	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7
Tennessee	-	1.1	1.1	.7	.8	.6	.6	.5	2.6	18.6	15.9	7.2	7.9	19.1
Texas	13.2	13.1	13.5	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7
Utah	114.0	103.3	108.6	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4
Virginia	-	1.6	1.5	2.3	1.6	.7	2.7	1.8	.5	.5	.9	-	-	5.5
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	.6	.7	.7	.7	.7	.8	.7	.7	.7	.7	.7	.6	.5	.5
Wyoming	50.6	48.1	52.1	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1
Other	13.4	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	12.1	12.3	12.7	12.9	13.3	14.2	15.3	16.2	16.9	18.0	18.1	18.4	18.3	17.6

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

Section IV
Table 5b

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1975	1976	1977	1978	1979	1980	1981
Alabama	62.1	64.8	79.1	85.0	80.3	90.1	81.9
Alaska	947.2	897.5	1,935.6	3,805.3	3,765.9	3,853.4	2,298.8
Arizona	65.7	51.6	41.8	36.4	37.0	33.6	27.9
Arkansas	6.1	6.7	7.2	7.1	6.5	6.1	6.1
California	21.7	21.3	22.3	21.9	22.1	21.9	22.4
Colorado	45.1	40.4	36.9	32.1	26.4	23.5	28.6
Florida	822.4	849.5	903.1	1,037.7	1,143.6	993.0	814.3
Illinois	3.0	3.1	3.0	2.7	2.5	2.5	2.5
Indiana	2.8	2.6	2.9	2.5	2.4	2.5	2.3
Kansas	3.9	3.8	3.7	3.6	3.6	3.6	4.3
Kentucky	1.5	1.5	1.3	1.1	1.1	1.1	1.2
Louisiana	64.0	61.4	61.5	60.3	54.5	50.5	48.6
Michigan	17.0	22.4	23.5	24.4	24.6	21.0	20.3
Mississippi	56.9	56.6	47.0	40.0	32.9	26.3	29.7
Missouri	1.0	1.0	0.9	0.9	1.2	1.4	1.5
Montana	28.3	27.4	27.0	24.8	23.2	22.2	21.3
Nebraska	14.5	13.6	12.2	11.3	11.0	10.5	9.8
Nevada	42.0	43.4	120.7	186.3	188.0	120.2	NA
New Mexico	19.3	18.2	16.9	14.4	11.2	11.2	12.0
New York	.5	.5	0.5	0.9	0.5	0.4	0.4
North Dakota	32.2	33.3	40.2	34.7	34.4	39.6	48.4
Ohio	1.6	1.6	1.7	1.7	1.7	1.7	1.7
Oklahoma	6.2	6.1	5.9	5.5	5.2	5.2	5.1
Pennsylvania	.3	.3	0.3	0.3	0.3	0.3	0.4
South Dakota	37.5	30.2	30.9	30.9	25.8	21.9	22.2
Tennessee	11.5	8.4	9.0	5.5	5.1	5.2	5.1
Texas	20.9	20.2	19.2	17.8	16.6	10.5	14.3
Utah	96.6	74.7	68.6	62.8	53.3	41.7	45.9
Virginia	1.6	1.2	1.0	1.2	1.8	3.6	NA
Washington	-	-	-	-	-	-	-
West Virginia	.5	.5	0.5	0.5	0.5	0.4	0.6
Wyoming	41.1	39.6	37.1	35.3	33.9	29.0	30.9
Other	-	-	-	-	-	-	-
Total	16.8	16.3	16.4	17.0	16.3	15.9	15.4

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(1) Includes Lease Condensate

Source: Department of Energy, Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annual 1981-Calculated by API, based on production from D.O.E. and producing wells from World Oil Magazine

BASIC PETROLEUM DATA BOOK

SECTION V. FINANCIAL

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Section V
Table 1

AVERAGE HOURLY EARNINGS-TOTAL MINING AND MANUFACTURING VS. PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING

(Annual Average)

		Petroleum and Natural Gas Extraction				
Year	Total Mining	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufac-turing	Petroleum Refining
1947	$1.47	N.A.	$1.40	N.A.	$1.22	$1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	$2.39	2.54	$2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94
1981	10.06	9.49	10.81	9.11	7.98	12.17
1982	10.82	10.32	11.94	9.78	8.50	13.30
1983	11.30	10.69	12.38	9.97	8.84	14.33

Source: U.S. Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 2

NUMBER OF EMPLOYEES
PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING
(Annual Average in Thousands)

	Petroleum and Natural Gas Extraction		
Year	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining
1947	164.0	N.A.	189.3
1948	173.6	N.A.	196.6
1949	173.1	N.A.	191.6
1950	166.8	N.A.	185.4
1951	169.1	N.A.	198.6
1952	177.2	N.A.	201.6
1953	181.3	N.A.	206.3
1954	184.7	N.A.	203.6
1955	189.0	N.A.	201.3
1956	192.3	N.A.	200.8
1957	194.5	N.A.	198.9
1958	192.4	135.0	190.4
1959	185.4	144.2	181.4
1960	178.2	131.1	177.2
1961	171.3	131.8	168.4
1962	167.6	130.4	160.5
1963	163.8	125.4	153.7
1964	160.4	130.7	149.6
1965	156.6	130.5	148.1
1966	152.5	129.2	148.2
1967	149.7	126.2	147.9
1968	148.1	127.5	150.1
1969	145.8	134.1	144.7
1970	144.2	125.9	153.7
1971	142.5	121.7	152.7
1972	142.7	125.5	152.3
1973	142.1	135.6	149.9
1974	148.5	156.0	155.4
1975	159.5	176.2	154.2
1976	165.0	195.3	157.1
1977	174.8	229.7	160.3
1978	178.1	239.0	163.0
1979	201.2	275.1	168.5
1980	218.3	329.1	154.2
1981	256.6	400.6	169.6
1982	288.6	413.0	169.0
1983	280.4	359.4	158.6

Source: U.S. Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 3

SOURCES OF CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Millions of dollars)

Year	Internal Funds	External Funds	Total Funds
1947	$ 2,221	$ 682	$ 2,903
1948	3,250	592	3,842
1949	2,971	641	3,612
1950	3,285	159	3,444
1951	3,847	316	4,163
1952	4,092	831	4,923
1953	4,591	520	5,111
1954	4,897	353	5,250
1955	5,429	520	5,949
1956	6,351	1,222	7,573
1957	6,536	1,211	7,747
1958	5,806	970	6,776
1959	6,211	241	6,452
1960	6,401	245	6,646
1961	6,892	649	7,541
1962	7,280	677	7,957
1963	7,710	925	8,635
1964	7,905	990	8,895
1965	8,681	1,196	9,877
1966	10,085	2,032	12,117
1967	10,682	2,791	13,473
1968	11,280	4,015	15,295
1969	11,715	2,998	14,713
1970	14,333	4,156	18,489
1971	15,132	5,059	20,191
1972	16,164	4,632	20,796
1973	23,211	4,786	27,997
1974	32,510	6,232	38,742
1975	23,931	10,129	34,060
1976	28,254	10,310	38,564
1977	33,427	8,678	42,105
1978	38,410	4,930	43,340
1979	62,828	8,568	71,396
1980	70,721	11,900	82,621
1981	64,930	16,585	81,515
1982	67,167	15,430	82,597
1983	66,962	8,707	75,669

Source: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 4

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Autos and Trucks	20.7	25.4	30.2	32.5	17.6	18.7	19.4	18.0	29.8	14.6	16.4	9.1	16.9	16.9	13.2
Drugs Soaps, etc.	20.7	21.3	16.2	21.4	17.7	13.7	15.1	14.8	17.6	19.9	21.5	21.9	22.0	20.4	18.4
Office Equip.	26.7	24.3	18.4	19.3	16.9	14.3	13.2	14.7	16.7	17.5	18.0	13.7	14.4	14.2	16.1
Glass Products	17.6	15.5	19.8	24.4	15.2	14.6	14.9	16.2	20.6	17.7	15.6	11.9	16.7	13.4	11.1
Elect.Equip.& Electronics	19.9	20.3	17.3	22.5	16.0	14.8	14.9	13.9	13.1	11.8	13.9	12.4	14.4	11.4	10.0
Auto Parts	23.4	22.9	18.9	22.7	15.7	13.1	13.2	10.4	15.9	12.9	12.1	7.4	13.1	7.3	6.8
Chemical Prod.	17.2	16.9	17.1	21.4	16.3	13.5	13.2	14.4	17.5	15.5	14.0	11.1	14.7	12.4	11.8
Household Equip.	33.2	26.6	15.4	23.0	12.9	12.5	10.7	10.3	12.2	12.7	9.6	7.7	14.1	10.0	9.2
Aircraft and Space	-	2.9	8.2	14.3	9.1	17.9	20.1	27.1	24.3	21.4	20.0	14.1	9.0	6.6	4.4
Soft Drinks	22.6	17.9	16.5	15.6	12.6	12.0	12.6	12.4	14.3	14.3	14.5	14.4	17.1	16.8	15.6
Other Stove and Clay Prod.	17.8	18.2	13.7	18.5	14.9	12.5	11.8	13.2	16.5	16.0	13.2	11.9	14.6	12.1	11.1
Lumber	33.1	23.1	10.7	17.0	16.0	11.4	10.3	9.7	14.0	12.6	9.5	9.2	11.7	7.5	6.6
Paper and Allied Prod.	23.7	19.6	12.8	17.1	16.1	12.0	12.2	12.4	14.0	14.2	10.6	9.3	10.5	9.1	8.1
Paint and Allied Prod.	19.0	13.1	10.3	17.1	12.9	10.7	12.7	13.6	16.3	18.0	15.8	12.8	12.5	13.0	12.5
Banking	20.4	21.0	17.8	15.9	12.3	12.2	12.0	11.4	12.0	12.2	12.5	11.7	11.5	11.6	9.7
Machinery	17.0	18.6	12.4	14.2	14.9	14.1	12.9	11.7	11.6	15.2	13.7	7.9	9.8	9.9	8.9
Rubber and Allied Prod.	16.0	13.4	8.7	15.9	16.4	13.4	14.0	11.9	15.3	13.8	12.4	10.6	12.9	10.3	10.2
Printing and Publ.	19.9	14.3	14.7	14.5	11.8	11.0	10.5	10.9	13.0	13.8	14.0	11.3	12.8	13.9	11.9
Petroleum	15.9	21.6	13.6	15.1	16.7	14.5	14.7	13.8	14.1	14.6	13.7	9.9	10.0	10.3	10.4
Other Food Prod.	21.2	16.9	14.0	15.4	11.8	10.0	11.1	11.5	11.8	11.7	11.5	11.4	11.8	11.4	12.8
Other Metal Prod.	15.7	17.1	11.1	16.4	14.9	11.4	11.5	11.1	12.8	12.5	12.0	8.9	11.4	6.8	7.3
Brewing	26.4	18.4	22.1	15.1	11.6	10.8	10.8	8.2	8.7	7.7	7.4	6.8	7.8	7.7	9.5
Building,Heat,Plumb. Equip.	19.6	20.1	12.6	17.8	13.8	10.9	10.2	9.8	11.3	11.3	9.4	8.1	9.1	5.3	4.6
Dairy Prod.	15.2	13.0	15.5	13.9	11.0	10.4	11.2	12.4	12.1	12.4	11.9	11.9	11.8	11.3	11.0
Non Ferrous Metals	14.8	15.3	8.0	14.5	13.5	11.5	11.0	10.8	16.6	17.2	9.7	6.8	8.9	7.2	6.8
Furniture and Fixtures	17.1	18.3	10.9	18.7	13.1	10.1	9.8	9.5	12.9	14.2	7.8	8.6	10.5	7.9	7.1
Iron and Steel	11.3	13.9	11.6	15.3	12.3	8.8	11.6	9.4	15.2	13.9	13.2	8.2	8.4	7.8	6.4
Total Manufacturing	17.0	18.2	13.8	17.1	14.4	11.3	12.7	12.3	14.9	13.8	12.9	9.8	11.7	10.6	9.9
Total Mining	16.0	20.5	12.0	13.2	13.0	10.1	7.9	8.2	13.0	13.8	9.6	7.3	7.8	8.0	8.3
Total Trade	18.3	18.2	13.2	14.8	11.5	10.1	9.9	9.9	10.9	11.4	10.8	10.5	11.9	10.7	10.2

Source: First National City Bank

Section V
Table 4a

NET INCOME AS A PERCENT OF NET WORTH: PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Autos & Trucks	19.4	19.6	19.9	23.4	17.8	12.0	16.6	13.8	5.8	15.0	17.2	17.6	6.1	5.7
Drugs & Medicine	17.8	18.7	19.8	22.1	22.5	20.3	19.8	17.7	18.8	19.0	19.8	21.4	21.0	20.4
Soap, Cosmetics	17.0	16.9	17.6	16.8	17.9	19.4	18.9	18.6	18.7	19.3	20.2	20.2	17.9	18.0
Office Eqpmt., Computers	17.2	18.0	17.9	18.7	18.1	17.8	19.0	17.4	13.9	12.5	13.8	16.7	16.3	15.9
Glass Products	11.6	11.6	12.1	13.5	12.7	11.1	11.9	12.2	9.0	11.1	12.5	12.9	10.6	9.8
Electr.Eqpmt.& Electronics	11.3	10.7	11.3	14.8	16.7	15.4	14.1	13.0	10.1	10.7	13.6	15.3	13.1	12.7
Auto Parts	10.2	11.4	12.0	13.4	14.0	11.4	12.6	13.0	8.9	10.4	13.5	14.4	10.4	9.6
Chemical Products	12.3	13.2	14.7	15.4	14.6	11.4	11.7	11.4	9.5	9.7	11.3	15.2	18.8	15.8
Household Appliances	11.5	12.8	13.9	15.0	15.0	14.7	14.0	13.5	11.9	12.1	15.4	15.6	5.3	6.2
Aerospace	12.9	11.7	12.9	15.4	15.7	13.4	13.9	11.4	6.7	6.3	8.9	11.7	13.8	11.7
Soft Drinks	16.6	17.9	20.7	21.1	22.0	23.3	22.7	22.5	22.7	23.1	22.1	22.0	19.0	20.6
Other Stone & Clay Prod.	9.0	9.1	10.6	9.9	9.2	7.3	8.9	9.3	7.0	8.7	10.8	11.9	9.1	8.2
Lumber & Wood Prod.	7.6	8.1	10.9	11.5	11.0	9.4	14.1	15.2	10.2	11.2	12.6	20.8	15.9	10.0
Paper & Allied Prod.	9.3	9.2	10.3	10.5	11.8	9.5	10.7	10.3	7.4	5.6	8.8	14.6	18.3	12.7
Paint & Allied Prod.	11.6	12.0	14.4	14.1	14.3	11.6	11.5	10.2	6.2	8.1	10.6	10.3	11.7	9.0
Baking	9.9	11.0	11.3	11.9	13.9	15.7	13.4	7.9	11.0	12.8	11.8	9.4	12.0	17.0
Machinery	9.9	9.7	11.9	14.4	16.9	14.7	13.5	12.9	10.5	10.3	10.6	12.7	12.2	11.6
Rubber & Allied Prod.	9.4	9.9	11.5	11.8	12.8	10.8	12.7	11.1	7.6	9.8	11.6	11.5	9.7	7.8
Printing & Publishing	10.5	12.4	14.0	16.9	17.9	15.4	14.9	14.8	12.5	12.6	13.8	15.4	14.5	12.9
Petroleum Prod'n & Refng.	10.6	11.5	11.6	11.9	12.6	12.8	13.1	11.9	11.0	11.2	10.8	15.6	19.6	13.9
Building,Heat. Plumb.Equip.	6.3	6.4	8.2	10.6	12.0	11.3	11.3	8.5	7.0	8.4	12.1	11.6	14.2	12.3
Other Food Products	12.5	12.1	12.7	12.6	13.3	12.3	12.7	12.1	12.8	12.3	14.2	14.8	14.4	14.1
Other Metal Products	9.0	9.3	10.4	12.9	14.1	13.8	13.3	12.5	10.4	8.9	10.4	12.9	14.0	13.0
Brewing	8.9	9.1	10.1	11.1	13.4	12.2	13.2	13.2	16.0	15.8	14.8	13.1	12.3	10.3
Dairy Products	10.5	11.2	12.2	12.5	12.6	11.8	11.7	11.8	12.0	12.6	12.8	13.0	13.2	14.3
Non Ferrous Metals	7.1	7.1	9.0	11.8	15.7	11.4	11.1	12.5	10.6	5.0	7.1	11.2	15.1	7.4
Furniture & Fixtures	7.8	8.1	11.1	13.0	14.3	11.9	11.3	12.4	8.4	11.9	12.5	13.0	8.2	7.0
Iron & Steel	5.4	7.3	9.2	9.6	9.4	7.4	8.5	7.4	4.6	4.6	6.1	9.8	17.1	10.0
Total Manufacturing	10.9	11.6	12.7	13.9	14.2	12.6	13.3	12.4	10.8	10.8	12.1	14.9	15.2	12.6
Total Mining	8.6	9.1	10.4	12.2	13.9	16.2	15.0	12.6	8.5	8.5	10.7	16.6	24.5	16.1
Total Trade	10.3	10.4	12.1	13.2	13.7	13.2	14.1	13.5	11.7	11.7	11.8	12.7	13.5	13.0

Source: First National City Bank

NET INCOME AS A PERCENT OF NET WORTH: PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1976	1977	1978	1979	1980	1981 (p)
Autos & Trucks	18.3	20.8	17.4	10.5	-13.6	-6.0
Drugs & Medicine	20.0	19.2	22.0	22.9	22.2	19.4
Soap, Cosmetics	18.3	19.7	20.9	19.9	19.7	18.1
Office Eqpmt., Computers	17.4	18.8	23.3	20.7	21.2	18.1
Glass Products	17.3	11.5	11.1	14.6	12.9	11.3
Elec.Eqpmt.,& Electronics	16.2	16.7	17.5	17.3	18.7	17.5
Auto Parts	15.3	16.4	17.4	18.2	11.9	16.2
Chemical Products	16.1	14.3	14.9	17.3	16.5	16.7
Household Appliances	17.4	19.4	16.8	16.6	14.3	13.6
Aerospace	13.6	17.4	17.0	21.8	17.7	12.7
Soft Drinks	22.4	22.3	22.3	22.3	20.9	23.0
Other Stone & Clay Prod.	10.6	12.2	17.2	14.5	5.5	10.4
Lumber & Wood Products	15.5	16.0	17.7	20.2	11.0	8.3
Paper & Allied Products	14.8	14.1	14.0	17.4	13.8	14.0
Paint & Allied Products	10.9	8.1	8.8	11.0	12.8	13.4
Baking	16.1	17.8	19.7	17.4	17.4	18.1
Machinery	13.6	15.0	16.5	18.3	14.3	14.4
Rubber & Allied Prod.	7.5	10.0	6.2	6.4	4.2	10.9
Printing & Publishing	13.9	16.8	21.2	19.4	18.5	19.0
Petroleum Prod'n. & Refing.	14.8	14.0	14.5	22.6	25.4	20.2
Building, Heating, Plumbing Equipment	21.0	20.4	21.8	26.0	22.4	18.3
Other Food Products	16.1	16.3	17.6	17.3	17.8	19.1
Other Metal Products	15.0	14.8	13.6	16.5	13.7	13.1
Brewing	11.5	10.5	10.1	12.5	16.0	15.9
Dairy Products	14.7	14.9	15.6	14.8	16.2	14.5
Non Ferrous Metals	8.5	8.0	9.4	18.6	18.5	10.5
Furniture & Fixtures	9.8	8.5	11.6	7.2	9.0	12.8
Iron & Steel	8.7	4.4	9.4	11.7	10.0	12.2
Total Manufacturing	15.0	14.9	15.9	18.4	16.5	15.7
Total Mining	16.5	8.5	8.2	19.8	19.1	19.2
Total Trade	14.7	15.0	15.3	15.7	13.8	13.6

(p) Preliminary

Source: First National City Bank

Section V
Table 5

DOMESTIC AND FOREIGN NET INCOME OF A GROUP OF PETROLEUM COMPANIES

Year	NET INCOME (MILLIONS OF DOLLARS) U.S.	Foreign	Total
1960	$ 1,887	$ 1,581	$ 3,468
1961	1,958	1,719	3,677
1962	2,044	1,963	4,007
1963	2,392	2,149	4,541
1964	2,556	2,156	4,712
1965	2,927	2,164	5,091
1966	3,438	2,214	5,652
1967	3,727	2,421	6,148
1968	3,913	2,751	6,664
1969	3,774	2,928	6,702
1970	3,609	3,029	6,638
1971	3,372	3,753	7,125
1972	3,526	3,155	6,681
1973	4,008	7,396	11,404
1974	6,119	9,931	16,050
1975	5,623	5,530	11,513
1976	7,165	5,462	12,627
1977	7,420	6,565	13,985
1978	7,968	6,582	14,550
1979	12,237	18,383	30,620
1980	15,073	19,047	34,120
1981	15,916	12,537	28,453
1982	12,831	8,431	21,262
1983	11,421	11,247	22,668

SOURCE: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 6

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES			GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS			COMBINED		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1947	2,825	1,225	4,050	250	70	320	3,075	1,295	4,370
1948	3,350	1,600	4,950	300	100	400	3,650	1,700	5,350
1949	3,000	1,925	4,925	325	100	425	3,325	2,025	5,350
1950	2,925	1,500	4,425	300	125	425	3,225	1,625	4,850
1951	3,625	1,700	5,325	400	150	550	4,025	1,850	5,875
1952	4,400	2,350	6,750	500	175	675	4,900	2,525	7,425
1953	5,025	2,550	7,575	575	175	750	5,600	2,725	8,325
1954	5,350	2,725	8,075	600	200	800	5,950	2,925	8,875
1955	5,600	2,950	8,500	625	250	875	6,225	3,200	9,425
1956	6,050	3,975	10,025	700	300	1,000	6,750	4,275	11,025
1957	6,400	5,000	11,400	700	375	1,075	7,100	5,375	12,475
1958	5,300	5,400	10,700	650	400	1,050	5,950	5,800	11,750
1959	5,272	5,775	11,050	650	470	1,120	5,925	6,245	12,170
1960	5,175	5,350	10,525	625	460	1,085	5,800	5,810	11,610
1961	5,100	5,325	10,425	600	420	1,020	5,700	5,745	11,445
1962	5,725	5,385	11,110	575	425	1,000	6,300	5,800	12,100
1963	5,475	5,675	11,150	600	450	1,050	6,075	6,125	12,200
1964	6,100	6,175	12,275	650	480	1,130	6,750	6,655	13,405
1965	6,375	6,800	13,175	610	570	1,180	6,985	7,370	14,355
1966	7,125	7,550	14,675	650	460	1,110	7,775	8,010	15,785
1967	7,650	7,925	15,575	615	575	1,190	8,265	8,500	16,765
1968	8,350	9,550	17,900	715	615	1,330	9,065	10,165	19,230
1969	8,175	10,200	18,375	725	655	1,380	8,900	10,855	19,755
1970	8,225	11,900	20,125	665	675	1,340	8,890	12,575	21,465
1971	7,250	14,550	21,800	715	680	1,395	7,965	15,230	23,195
1972	9,050	15,900	24,950	740	800	1,540	9,790	16,700	26,490
1973	10,640	19,355	29,995	850	850	1,700	11,490	20,205	31,695
1974	16,625	27,075	43,700	1,130	1,055	2,185	17,755	28,130	45,885

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Section V
Table 6a

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES			GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS			COMBINED		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1975	17,725	31,900	49,625	1,195	1,130	2,325	18,920	33,030	51,950
1976	22,085	34,640	56,725	1,375	1,160	2,535	23,460	35,800	59,260
1977	22,400	39,180	61,580	1,645	1,750	3,395	24,045	40,930	64,975
1978	24,475	43,900	68,375	1,975	2,060	4,035	26,450	45,960	72,410
1979	32,200	49,425	81,625	2,600	2,725	5,325	34,800	52,150	86,950
1980	42,900	62,625	105,525	3,850	3,775	7,625	46,750	66,400	113,150
1981	63,000	75,600	138,600	5,700	4,900	10,600	68,700	80,500	149,200
1982	63,550	75,875	139,425	4,500	5,100	9,600	68,050	80,975	149,025

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES

(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other	Total
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,234
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860
1971	14,389	5,059	(3)	743	20,191	12,511	3,836	2,029	972	19,348
1972	14,377	4,632	(3)	1,787	20,796	12,717	3,774	3,258	751	20,500
1973	20,623	4,786	(3)	2,588	27,997	14,247	4,056	4,023	381	22,707
1974	28,165	6,232	(3)	4,345	38,742	22,270	4,681	4,262	894	32,107

(3) Included in Long Term Debt Issued.
(4) Includes preferred and common stock retired.

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

Section V
Table 7a

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other(1)	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other(2)	Total
1975	22,714	10,129	(3)	1,217	34,060	24,205	4,819	5,316	1,740	36,080
1976	25,828	10,310	(3)	2,426	38,564	26,036	5,208	5,230	829	37,303
1977	29,003	8,678	(3)	4,424	42,105	27,156	5,995	5,954	1,508	40,613
1978	33,184	4,930	(3)	5,226	43,340	28,770	6,781	6,885	1,562	43,998
1979	55,844	8,568	(3)	6,984	71,396	42,229	8,127	8,249	2,473	61,078
1980	66,859	11,900	(3)	5,862	82,821	53,776	10,305	9,728	2,613	76,422
1981	63,207	16,585	(3)	1,723	81,515	63,976	11,068	10,020	4,867	89,931
1982	60,884	14,980	450	6,283	82,597	64,538	11,265	9,281	3,731	90,019
1983	60,256	8,407	300	6,706	75,669	49,521	11,057	7,524	4,507	72,609

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(1) Other includes sales of assets and other transactions.
(2) Other includes investments and advancements and preferred and common stock retired.
(3) Included in Long Term Debt Issued.

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY
(Millions of Dollars)

Year	PRODUCTION		TRANSPORTATION		REFINERIES & CHEMICAL PLANTS	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1947	1,750	475	295	310	400	225
1948	2,100	685	310	255	600	405
1949	2,000	770	250	405	420	475
1950	2,100	475	215	430	275	375
1951	2,650	575	285	410	325	400
1952	3,200	890	385	505	470	490
1953	3,525	890	425	610	675	620
1954	3,800	970	325	740	800	585
1955	4,100	1,110	225	655	835	580
1956	4,475	1,725	225	775	825	725
1957	4,525	2,180	345	1,060	950	980
1958	3,650	1,925	350	1,520	725	1,045
1959	3,850	2,030	260	1,720	525	1,020
1960	3,735	1,875	265	1,395	560	1,030
1961	3,525	1,855	230	1,140	685	1,265
1962	4,000	1,665	340	1,205	660	1,415
1963	3,650	1,520	415	1,155	600	1,765
1964	3,960	1,605	340	1,570	675	1,515
1965	3,760	2,025	265	1,510	1,125	1,665
1966	3,770	1,870	300	1,755	1,575	2,435
1967	4,025	1,975	400	1,740	1,600	2,550
1968	4,925	2,535	475	2,280	1,450	2,980
1969	4,750	2,790	400	2,600	1,525	2,995

Year	MARKETING		OTHER CAPITAL EXPENDITURES		TOTAL CAPITAL EXPENDITURES	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1947	300	175	80	40	2,825	1,225
1948	225	165	115	90	3,350	1,600
1949	240	215	90	60	3,000	1,925
1950	275	180	60	40	2,925	1,500
1951	300	245	65	70	3,625	1,700
1952	280	375	65	90	4,400	2,350
1953	325	360	75	70	5,025	2,550
1954	350	385	75	45	5,350	2,725
1955	375	535	65	70	5,600	2,950
1956	450	685	75	65	6,050	3,975
1957	475	710	105	70	6,400	5,000
1958	400	745	175	165	5,300	5,400
1959	450	885	190	120	5,275	5,775
1960	475	950	140	100	5,175	5,350
1961	525	930	135	135	5,100	5,325
1962	600	985	125	105	5,725	5,375
1963	650	1,085	160	150	5,475	5,675
1964	850	1,340	275	145	6,100	6,175
1965	1,000	1,430	225	170	6,375	6,800
1966	1,100	1,310	380	180	7,125	7,550
1967	1,250	1,455	375	205	7,650	7,925
1968	1,150	1,515	350	240	8,350	9,550
1969	1,250	1,555	250	260	8,175	10,200

Source: The Chase Manhattan Bank

Section V
Table 8a

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY
(Millions of Dollars)

Year	PRODUCTION		TRANSPORTATION		REFINERIES & CHEMICAL PLANTS	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1970	4,335	2,895	550	2,915	1,625	3,900
1971	3,385	3,830	675	3,435	1,550	4,740
1972	5,915	4,190	425	4,580	1,350	4,955
1973	7,440	5,485	550	7,230	1,475	4,565
1974	11,450	8,085	1,660	9,760	2,600	7,115
1975	9,380	9,875	3,725	11,510	3,600	8,270
1976	13,460	12,315	3,900	12,350	3,775	7,635
1977	15,180	17,280	2,300	8,060	3,700	10,965
1978	17,650	20,055	1,350	7,380	4,050	13,275
1979	24,600	24,465	1,450	6,575	4,625	14,385
1980	33,100	33,775	2,150	7,725	5,650	16,125
1981	51,700	41,675	1,725	10,300	7,250	18,325
1982	52,275	43,400	1,300	7,650	7,550	19,525

Year	MARKETING		OTHER CAPITAL EXPENDITURES		TOTAL CAPITAL EXPENDITURES	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1970	1,450	1,770	265	420	8,225	11,900
1971	1,350	2,030	290	515	7,250	14,550
1972	1,100	1,725	260	450	9,050	15,900
1973	850	1,630	325	445	10,640	19,355
1974	650	1,565	325	550	16,625	27,075
1975	650	1,510	370	735	17,725	31,900
1976	625	1,555	325	785	22,085	34,640
1977	775	1,895	445	980	22,400	39,180
1978	950	2,290	475	980	24,475	43,900
1979	975	2,775	550	1,225	32,200	49,425
1980	1,300	3,750	700	1,250	42,900	62,625
1981	1,425	3,775	900	1,525	63,000	75,600
1982	1,400	3,700	1,025	1,600	63,550	75,875

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry

Section V
Table 9

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES
CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES
(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1947	$ 1,950	$ 991	$ 959
1948	2,300	1,318	982
1949	2,215	1,217	998
1950	2,325	1,157	1,168
1951	2,975	1,620	1,355
1952	3,625	1,855	1,770
1953	3,975	2,014	1,961
1954	4,300	2,180	2,120
1955	4,675	2,383	2,292
1956	5,075	2,621	2,454
1957	5,100	2,673	2,427
1958	4,225	2,241	1,984
1959	4,350	2,455	1,895
1960	4,200	2,412	1,788
1961	4,000	2,417	1,583
1962	4,425	2,848	1,577
1963	4,125	2,452	1,673
1964	4,450	2,817	1,633
1965	4,210	2,847	1,363
1966	4,250	2,990	1,260
1967	4,365	3,212	1,153
1968	5,390	4,087	1,303
1969	5,250	3,768	1,482
1970	4,775	3,119	1,656
1971	3,900	2,740	1,160
1972	6,480	4,225	2,255
1973	8,140	5,275	2,865
1974	12,355	8,550	3,805
1975	10,250	7,007	3,243
1976	14,510	8,711	5,799
1977	16,500	10,159	6,341
1978	19,300	11,378	7,922
1979	26,750	20,616	6,134

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES
CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES

(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1980	36,200	25,053	11,147
1981	56,475	32,765	23,710
1982	55,400	30,902	24,498

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION, DEVELOPMENT AND PRODUCTION, MILLION DOLLARS(1)

	1973	1974	1975	1976	1977	1978	1979	1980	1981
Exploration Expenditures									
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2	8,678.6	13,545.7
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2.579.5	2,885.4	7,036.5	7,899.2	11,188.2
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5	294.7	376.2
Geological and geophysical	399.5	567.6	652.8	692.3	833.3	1,028.7	1,218.2	1,871.1	2,823.0
Lease rental	150.7	177.8	204.7	206.7	245.8	285.3	311.6	429.1	600.4
Test Hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0	28.0	34.2
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5	757.0	999.0
General and administrative	203.6	290.9	341.7	404.8	413.5	488.8	661.7	892.8	1,107.5
TOTAL EXPLORATION(3)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2	20,830.8	30,674.2
Development Expenditures									
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5	10,193.4	16,107.5
Lease equipment	572.2	824.1	1,499.6	1,486.8	1,607.9	2,175.0	2,146.0	3,572.8	4,760.3
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3	3,414.6	972.6
Improved recovery programs	352.5	625.4	928.9	378.4	461.4	639.3	528.3	941.2	1,458.2
Other, incl. direct overhead	(2)	(2)	(2)	978.9	672.3	467.5	544.3	712.5	801.6
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2	744.4	915.6
TOTAL DEVELOPMENT(3)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6	19,578.9	25,015.7
Producing Expenditures									
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,507.4	5,277.9	6,152.2	7,295.3	9,461.9	13,505.1
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4	4,564.9	6,638.6
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1.181.3	1,709.8	2,244.8
Other indirect expenses	193.5	252.1	358.0	369.1	435.6	393.6	538.6	6,508.7	20,557.5
TOTAL PRODUCTION(3)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6	22,245.2	42,945.8
TOTAL EXPENDITURES(3)	12,694.2	18,706.1	18,558.7	22,558.7	25,725.1	30,373.2	44,686.4	62,655.0	98,635.7

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(1) Data not available prior to 1973
(2) Included in improved recovery programs before 1976
(3) Totals do not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION DEVELOPMENT AND PRODUCTION, MILLION DOLLARS(1)

	1982
Exploration Expenditures	
Drilling and equipping wells	12,935.8
Acquiring undeveloped acreage	8,163.3
Land dept. leasing and scouting	458.0
Geological and geophysical	2,997.5
Lease rental	643.7
Test Hole contributions	47.2
Other, incl. direct overhead	1,192.0
General and administrative	1,420.8
TOTAL EXPLORATION(3)	27,858.3
Development Expenditures	
Drilling and equipping wells	15,578.0
Lease equipment	5,134.6
Acquiring producing acreage	1,511.5
Improved recovery programs	1,943.8
Other, incl. direct overhead	740.2
General and administrative	950.7
TOTAL DEVELOPMENT(3)	25,858.8
Producing Expenditures	
Direct operating expenditures	14,405.3
Taxes, excl. income tax	14,008.3
General and administrative	3,047.8
Other indirect expenses	6,605.8
TOTAL PRODUCTION(3)	38,067.2
TOTAL EXPENDITURES(3)	91,784.3

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(1) Data not available prior to 1973
(3) Totals do not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S.[1]

(Millions of Dollars)

	YEAR																
	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL EXPENDITURES																	
1. Air..............	$125	$167	$187	$231	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$2,184	$2,311	$2,553
2. Water............	146	191	205	224	303	415	379	402	530	629	822	950	884	1,001	1,299	1,786	1,705
3. Land and other...	-	-	-	-	60	101	91	100	150	456	336	383	194	203	357	516	551
TOTAL............	$271	$358	$392	$455	$683	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$3,840	$4,613	$4,809
CAPITAL EXPENDITURES																	
1. Air..............	$69	$100	$112	$145	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$728	$711	$932
2. Water............	79	114	128	136	163	224	184	194	271	356	411	434	340	394	527	804	745
3. Land and other...	-	-	-	-	34	57	51	52	97	396	269	184	89	92	183	273	282
TOTAL............	$148	$214	$240	$281	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$1,438	$1,788	$1,959
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES																	
1. Air..............	$43	$50	$53	$62	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$1,392	$1,538	$1,554
2. Water............	57	66	75	84	136	185	187	201	249	262	401	502	532	594	754	960	933
3. Land and other...	-	-	-	-	24	41	37	43	50	55	63	197	101	106	165	231	248
TOTAL............	$100	$116	$128	$146	$268	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$2,311	$2,729	$2,735
RESEARCH AND DEVELOPMENT EXPENDITURES																	
1. Air..............	$13	$17	$22	$24	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$64	$62	$67
2. Water............	10	11	2	4	4	6	8	7	10	11	10	14	12	13	18	22	27
3. Land and other...	-	-	-	-	2	3	3	5	3	5	4	2	4	5	9	12	21
TOTAL............	$23	$28	$24	$28	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$91	$96	$115

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(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry 1971-1980

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S.(1)

(Millions of Dollars)

	YEAR
	1983
TOTAL EXPENDITURES	
1. Air...............	$2,014
2. Water............	1,552
3. Land and other...	439
TOTAL............	4,005
CAPITAL EXPENDITURES	
1. Air...............	$497
2. Water............	627
3. Land and other...	178
TOTAL............	1,302
ADMINISTRATIVE, OPERATING AND MAINTENANCE EXPENDITURES	
1. Air...............	$1,457
2. Water............	901
3. Land and other...	243
TOTAL............	2,601
RESEARCH AND DEVELOPMENT EXPENDITURES	
1. Air...............	$60
2. Water............	24
3. Land and other...	18
TOTAL............	102

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(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry

Section V
Table 12

SUMMARY FINANCIAL DATA FOR TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Millions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976
TOTAL REVENUE	$ 61,178.3	$ 67,478.8	$ 73,499.2	$ 81,297.0	$ 88,581.5	$110,348.2	$194,355.9	$202,114.8	$225,540.2
DEDUCTIONS:									
Payroll and Benefits	6,587.5	7,198.5	7,746.9	8,765.4	9,407.2	10,042.6	11,532.3	13,630.6	14,666.3
Depreciation, Depletion and Amortization	4,130.6	4,426.4	4,871.4	5,221.5	5,509.5	6,140.0	7,102.7	8,030.6	8,008.9
Interest	763.3	1,007.0	1,183.5	1,304.6	1,381.7	1,509.3	1,719.6	1,773.2	2,048.0
Other Costs and Expenses	35,125.2	39,451.2	42,946.1	46,768.1	51,460.1	63,919.6	129,988.4	136,988.6	159,347.8
Total Taxes	8,772.0	9,590.5	10,956.6	13,147.7	14,781.5	19,325.5	30,839.1	31,788.1	29,846.3
TOTAL DEDUCTIONS	$ 55,378.6	$ 61,673.6	$ 67,704.5	$ 75,207.3	$ 82,540.0	$100,937.0	$181,172.1	$192,211.1	$213,917.3
NET INCOME	$ 5,805.1	$ 5,635.7	$ 5,796.7	$5,846.8	$ 5,783.6	$ 9,467.5	$ 13,149.0	$ 9,901.2	$ 11,640.9

Source: Financial Trends of Leading U.S. Oil Companies, 1968-1983, API, Discussion Paper #017R, October 1984

Section V
Table 12a

SUMMARY FINANCIAL DATA FOR TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Millions of Dollars)

	1977	1978	1979	1980	1981	1982	1983
TOTAL REVENUE	$250,402.4	$273,805.8	$364,587.6	$485,103.6	$538,711.3	$496,255.5	$453,486.9
DEDUCTIONS:							
Payroll and Benefits	16,210.4	18,344.8	22,009.7	26,894.9	30,010.3	32,424.7	31,439.5
Depreciation, Depletion and Amortization	9,134.2	10,889.6	12,728.0	15,105.4	18,067.9	21,106.6	22,828.4
Interest	2,942.4	3,602.8	3,891.7	4,073.3	5,557.6	6,050.9	5,862.1
Other Costs and Expenses	175,856.6	190,082.2	256,527.0	342,705.7	382,681.7	352,749.3	312,845.1
Total Taxes	238,294.2	260,458.5	341,637.9	455,788.5	511,045.7	475,152.7	432,335.0
TOTAL DEDUCTIONS	$238,294.2	$260,458.5	$341,637.9	$455,788.5	$511,045.7	$475,152.7	$432,335.0
NET INCOME	$ 12,089.7	$ 13,385.2	$ 22,986.6	$ 29,319.8	$ 27,665.6	$ 21,138.3	$ 21,266.6

SOURCE: Financial Trends of Leading U.S. Oil Companies 1968-1983, API, Discussion Paper #017, October 1984

Section V
Table 13

CAPITAL EXPENDITURES OF TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Billions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL												
U.S.	6.2	6.2	6.2	5.7	6.2	7.3	12.8	13.6	15.4	16.0	16.0	20.5
World	9.6	9.7	9.6	9.7	10.1	12.0	18.9	20.1	21.3	22.5	24.0	30.6
EXPLORATION & PRODUCTION												
U.S.	3.2	3.0	2.7	2.4	3.2	4.2	7.7	6.5	8.0	8.4	9.1	13.1
World	4.8	4.5	3.9	3.7	4.7	6.0	10.7	10.2	11.5	12.7	14.7	19.8
REFINING, MARKETING, TRANSPORTATION												
U.S.	1.9	2.2	2.6	2.6	2.2	2.0	3.2	4.7	4.2	3.0	2.9	3.5
World	3.4	4.0	4.6	5.0	4.3	4.8	6.0	7.1	6.1	4.9	4.7	5.9
TOTAL PETROLEUM												
U.S.	5.1	5.2	5.3	5.0	5.4	6.2	10.9	11.2	12.2	11.4	12.0	16.6
World	8.2	8.5	8.5	8.7	9.0	10.8	16.7	17.3	17.6	17.6	19.4	25.7
CHEMICALS												
U.S.	0.6	0.5	0.5	0.3	0.4	0.4	0.9	1.4	2.1	2.6	2.2	2.0
World	0.8	0.6	0.6	0.5	0.5	0.5	1.1	1.6	2.4	2.7	2.3	2.0
PETROLEUM & CHEMICALS												
U.S.	5.7	5.7	5.8	5.3	5.8	6.6	11.8	12.6	14.3	14.0	14.2	18.6
World	9.0	9.1	9.1	9.2	9.5	11.3	17.8	18.9	20.0	20.3	21.8	28.0
OTHER ENERGY												
U.S.	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.6	0.9	0.9	0.9
World	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.7	1.0	1.0	1.3
TOTAL ENERGY												
U.S.	5.9	5.9	6.0	5.5	6.0	6.8	12.3	13.2	14.9	14.9	15.1	19.5
World	9.2	9.3	9.3	9.4	9.7	11.5	18.4	19.6	20.7	21.3	22.8	29.3
OTHER												
U.S.	0.3	0.3	0.2	0.2	0.2	0.5	0.5	0.4	0.5	1.1	0.9	1.0
World	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.6	1.2	1.2	1.3

Source: Financial Trends of Leading U.S. Oil Companies 1968-1983, API, Discussion Paper #017, October 1984

Section V
Table 13a

CAPITAL EXPENDITURES OF TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Billions of Dollars)

	1980	1981	1982	1983
TOTAL				
U.S.	27.6	39.4	35.4	28.4
World	40.7	53.5	49.8	40.3
EXPLORATION & PRODUCTION				
U.S.	17.5	26.3	22.5	18.9
World	26.1	35.0	32.1	26.8
REFINING, MARKETING, TRANSPORTATION				
U.S.	4.3	6.4	6.1	5.1
World	7.5	9.6	8.8	7.0
TOTAL PETROLEUM				
U.S.	21.8	32.7	28.6	24.0
World	33.6	44.6	40.9	33.8
CHEMICALS				
U.S.	2.5	2.6	2.0	1.1
World	2.5	2.6	2.0	1.7
PETROLEUM & CHEMICALS				
U.S.	24.3	35.3	30.6	25.1
World	36.5	48.1	43.9	35.5
OTHER ENERGY				
U.S.	1.4	1.6	2.3	1.0
World	1.9	2.4	3.0	2.1
TOTAL ENERGY				
U.S.	25.7	36.9	32.9	26.1
World	38.4	50.5	46.9	37.6
OTHER				
U.S.	1.9	2.5	2.5	2.3
World	2.3	3.0	2.9	2.7

Source: Financial Trends of Leading U.S. Oil Companies 1968-1983, API, Discussion Paper #017, October 1984

NET INCOME AS A PERCENT OF STOCKHOLDERS' EQUITY
OIL AND NON-OIL COMPANIES

Year	API-24 Companies(1)	Non-Petroleum Manufacturing(2)
1968	12.5	14.1
1969	11.3	13.6
1970	10.9	10.4
1971	10.4	11.1
1972	9.8	13.1
1973	15.0	15.3
1974	18.6	13.8
1975	12.8	12.2
1976	14.0	14.8
1977	13.4	14.6
1978	13.7	15.5
1979	20.9	16.4
1980	22.8	13.1
1981	18.7	13.6
1982	13.1	9.2
1983	12.4	11.0
Median	13.3	13.6

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(1) Net income as a percent of average stockholders' equity.

(2) Net income as a percent of average stockholders' equity. Calculations based on Standard & Poor's Compustat data base, All Industrial Aggregate excluding non-manufacturing (e.g., retail) and petroleum industry sectors. The median number of non-oil comopanies over the period was 868; the range was 776-948.

Source: Financial Trends of Leading U.S. Oil Companies 1968-1983, API,
Discussion Paper #017, October 1984

BASIC PETROLEUM DATA BOOK

SECTION VI. PRICES

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Section VI
Table 1

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES CRUDE OIL
CURRENT AND CONSTANT 1967 DOLLARS
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(1) (1967 = 100)	Price in 1967 Constant Dollars
1947	$1.93	76.5	$2.52
1948	2.60	82.8	3.14
1949	2.54	78.7	3.23
1950	2.51	81.8	3.07
1951	2.53	91.1	2.78
1952	2.53	88.6	2.86
1953	2.68	87.4	3.07
1954	2.78	87.6	3.17
1955	2.77	87.8	3.15
1956	2.79	90.7	3.08
1957	3.09	93.3	3.31
1958	3.01	94.6	3.18
1959	2.90	94.8	3.06
1960	2.88	94.9	3.03
1961	2.89	94.5	3.06
1962	2.90	94.8	3.06
1963	2.89	94.5	3.06
1964	2.88	94.7	3.04
1965	2.86	96.6	2.96
1966	2.88	99.8	2.89
1967	2.92	100.0	2.92
1968	2.94	102.5	2.87
1969	3.09	106.5	2.90
1970	3.18	110.4	2.88
1971	3.39	113.9	2.98
1972	3.39	119.1	2.85
1973	3.89	134.7	2.89
1974	6.74	160.1	4.21
1975	7.56	174.9	4.32
1976	8.14	182.9	4.45
1977	8.57	194.2	4.41
1978	8.96	209.3	4.28
1979	12.51	235.6	5.31
1980	21.59	268.7	8.03
1981	31.77	293.4	10.83
1982	28.52	299.3	9.53
1983	26.19	303.1	8.64

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(1) For 1976 and prior years figures are for Wholesale Price Index

Source: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

Section VI
Table 2

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES NATURAL GAS
CURRENT AND CONSTANT 1967 CENTS
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index(2) All Commodities (1967 = 100)	Price in 1967 Constant Cents
1947	6.0	76.5	7.8
1948	6.5	82.8	7.9
1949	6.3	78.7	8.0
1950	6.5	81.8	7.9
1951	7.3	91.1	8.0
1952	7.8	88.6	8.8
1953	9.2	87.4	10.5
1954	10.1	87.6	11.5
1955	10.4	87.8	11.8
1956	10.8	90.7	11.9
1957	11.3	93.3	12.1
1958	11.9	94.6	12.6
1959	12.9	94.8	13.6
1960	14.0	94.9	14.8
1961	15.1	94.5	16.0
1962	15.5	94.8	16.4
1963	15.8	94.5	16.7
1964	15.4(1)	94.7	16.3
1965	15.6	96.6	16.1
1966	15.7	99.8	15.7
1967	16.0	100.0	16.0
1968	16.4	102.5	16.0
1969	16.7	106.5	15.7
1970	17.1	110.4	15.5
1971	18.2	113.9	16.0
1972	18.6	119.1	15.6
1973	21.6	134.7	16.0
1974	30.4	160.1	19.0
1975	44.5	174.9	25.4
1976	58.0	182.9	31.7
1977	79.0	194.2	40.7
1978	90.5	209.3	43.2
1979	117.8	235.6	50.0
1980	159.0	268.7	59.2
1981	198.0	293.4	67.5
1982	243.0	299.3	81.2
1983	260.0	303.1	85.8

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(1) For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i. For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.

(2) For 1976 and prior years, figures are for Wholesale Price Index.

Source: Current Price, U.S. Energy Information Administration.
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

REFINER ACQUISITION COST OF CRUDE OIL
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1968(1)	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99

(1) Not available prior to 1968.

SOURCE: U.S. Department of Energy: Annual Energy Review and Monthly Energy Review.

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM

(1967 = 100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1947	54.9	N.A.	N.A.	N.A.
1948	59.5	N.A.	N.A.	N.A.
1949	62.9	N.A.	N.A.	N.A.
1950	64.3	N.A.	N.A.	N.A.
1951	70.8	N.A.	N.A.	N.A.
1952	70.9	N.A.	N.A.	N.A.
1953	73.9	N.A.	N.A.	N.A.
1954	76.5	76.0	69.2	66.0
1955	79.7	80.6	72.8	70.4
1956	84.7	91.9	77.7	77.7
1957	90.5	102.2	86.2	87.9
1958	91.0	105.5	89.8	91.6
1959	91.1	105.1	91.6	93.4
1960	91.2	104.1	91.6	93.4
1961	92.5	102.9	89.5	91.3
1962	93.8	103.5	88.0	89.7
1963	93.3	105.9	88.8	90.6
1964	94.8	103.6	91.9	93.4
1965	95.2	97.9	96.2	97.9
1966	96.5	97.9	96.2	97.9
1967	100.0	100.0	100.0	100.0
1968	106.4	104.0	101.5	102.5
1969	112.7	109.2	104.5	106.4
1970	118.7	113.2	109.1	111.2
1971	122.6	124.7	120.7	122.7
1972	127.3	133.7	128.4	131.1
1973	133.2	139.1	133.2	136.3
1974	157.8	189.8	170.7	181.3

N.A. Not available

Source: U.S. Bureau of Labor Statistics, Wholesale Price Index

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM

(1967 = 100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1975	196.3	226.9	211.5	220.1
1976	217.7	234.6	223.1	239.2
1977	236.6	260.5	244.3	270.0
1978	261.6	296.6	271.6	299.8
1979	289.6	303.4	285.2	316.9
1980	335.5	336.2	326.9	366.9
1981	401.0	394.0	407.6	501.7
1982	439.6	416.8	451.9	584.0
1983	427.9	406.3	406.1	458.0
1984	424.9	405.6	386.4	NA

Source: U.S. Bureau of Labor Statistics, Producer Price Index

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation
		Cents per Gallon				Index: 1967 = 100		
1947	16.93	6.18	23.11	66.9	70.6	61.1	78.2	68.7
1948	19.54	6.34	25.88	72.1	76.6	65.1	83.3	72.2
1949	20.27	6.52	26.79	71.4	73.5	68.0	80.1	74.9
1950	20.08	6.68	26.76	72.1	74.5	70.4	79.0	74.4
1951	20.31	6.84	27.15	77.8	82.8	73.2	86.1	76.6
1952	20.04	7.32	27.36	79.5	84.3	76.2	85.3	76.9
1953	21.28	7.41	28.69	80.1	83.0	80.3	84.6	77.7
1954	21.56	7.48	29.04	80.5	82.8	83.2	84.5	76.9
1955	21.42	7.65	29.07	80.2	81.6	84.3	84.1	76.7
1956	21.57	8.36	29.93	81.4	82.2	85.9	85.8	77.8
1957	22.11	8.85	30.96	84.3	84.9	87.5	87.3	80.7
1958	21.47	8.91	30.38	86.6	88.5	89.1	87.5	83.9
1959	21.18	9.31	30.49	87.3	87.1	90.4	88.2	85.3
1960	20.99	10.14	31.13	88.7	88.0	91.7	89.6	87.3
1961	20.53	10.23	30.76	89.6	89.1	92.9	90.4	89.3
1962	20.36	10.28	30.64	90.6	89.9	94.0	90.9	91.3
1963	20.11	10.31	30.42	91.7	91.2	95.0	91.9	92.8
1964	19.98	10.37	30.35	92.9	92.4	95.9	92.7	95.0
1965	20.70	10.45	31.15	94.5	94.4	96.9	93.7	95.9
1966	21.57	10.51	32.08	97.2	99.1	98.2	96.1	97.5
1967	22.55	10.61	33.16	100.0	100.0	100.0	100.0	100.0
1968	22.93	10.78	33.71	104.2	103.6	102.4	105.4	104.7
1969	23.85	10.99	34.84	109.8	108.9	105.7	111.5	108.7
1970	24.55	11.14	35.69	116.3	114.9	110.1	116.1	113.4
1971	25.20	11.23	36.43	121.3	118.4	115.2	119.8	119.3
1972	24.46	11.67	36.13	125.3	123.5	119.2	122.3	122.8
1973	26.88	11.94	38.82	133.1	141.4	124.3	126.8	125.9
1974	40.41	12.00	52.41	147.7	161.7	130.6	136.2	133.8

Sources: Retail Price of Regular Grade Gasoline, Platt's Oil Price Handbook and Oilmanac.
Price Indexes, U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 5a

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation
	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS				
	Cents per Gallon			Index: 1967 = 100				
1975	45.44	11.77	57.22	161.2	175.4	137.3	142.3	144.4
1976	47.44	12.03	59.47	170.5	180.8	144.7	147.6	151.2
1977	50.70	12.37	63.07	181.5	192.2	153.3	154.2	157.9
1978	53.09	12.62	65.71	195.4(1)	211.4	164.0	159.6	176.6
1979	74.33	13.46	87.79	217.4	234.5	176.0	166.6	188.5
1980	107.35	14.37	121.72	246.8	254.6	191.6	178.4	205.3
1981	N.A.	N.A.	131.10	272.3	274.6	208.2	186.9	221.4
1982	N.A.	N.A.	122.20	289.1	285.7	224.0	191.8	235.8
1983	95.36	20.34	115.70	298.4	291.7	236.9	196.5	246.0

(1) Beginning in July, 1978, the CPI was given in two forms, CPI-U & CPI-W. The index used above is the CPI-U.
(2) Represented "Reading and Recreation" prior to July 1978.
N.A. Not available

Source: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-80 retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
1981-1983 -- retail price of regular grade gasoline, Bureau of Labor Statistics
Price indexes, U.S. Department of Labor, Bureau of Labor Statistics

U.S. ANNUAL AVERAGE RETAIL PRICE OF #2 HOME HEATING OIL

Year	Cost per Gallon(1) (current cents)	Consumer Price Index (1967 = 100)	Cost Per Gallon (1967 constant cents)
1956(2)	15.21	81.4	18.69
1957	15.98	84.3	18.96
1958	15.07	86.6	17.40
1959	15.29	87.3	17.51
1960	15.02	88.7	16.93
1961	15.62	89.6	17.43
1962	15.62	90.6	17.24
1963	15.97	91.7	17.42
1964	16.06	92.9	17.29
1965	16.04	94.5	16.97
1966	16.43	97.2	16.90
1967	16.91	100.0	16.91
1968	17.44	104.2	16.74
1969	17.82	109.8	16.23
1970	18.48	116.3	15.89
1971	19.63	121.3	16.18
1972	19.72	125.3	15.74
1973	22.75	133.1	17.09
1974	36.01	147.7	24.38
1975	38.98	161.2	24.18
1976	41.80	170.5	24.52
1977	47.37	181.5	26.10
1978	50.80(e)	195.4	26.00
1979	72.80	217.4	33.49
1980	100.97	246.8	40.91
1981	124.66	272.4	45.76
1982	120.86	289.1	41.81
1983	110.12	298.4	36.90

(e) Estimate
(1) Includes all applicable taxes
(2) Data prior to 1956 is not available on a comparable basis

Source: U.S. Department of Labor, Bureau of Labor Statistics
BLS Monthly prices averaged by API to derive annual average price

Section VI
Table 7

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

	VALUE (Thousand dollars)		PRODUCTION (Trillion BTU)		PRICE AT WELLHEAD (Cents per million BTU)		PRICE AT WELLHEAD (1967 constant cents per million BTU)	
Year	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1947	$3,577,890	$274,709	10,771	5,012	33.2	5.5	43.4	7.2
1948	5,245,080	333,173	11,717	5,615	44.8	5.9	54.1	7.1
1949	4,674,770	344,034	10,683	5,911	43.8	5.8	55.7	7.4
1950	4,963,380	408,521	11,449	6,841	43.4	6.0	53.1	7.3
1951	5,690,410	542,964	13,037	8,106	43.6	6.7	47.9	7.4
1952	5,785,230	623,649	13,282	8,705	43.6	7.2	49.2	8.1
1953	6,327,100	774,966	13,671	9,116	46.3	8.5	53.0	9.7
1954	6,424,930	882,501	13,427	9,488	47.9	9.3	54.7	10.6
1955	6,870,380	978,357	14,445	10,532	47.6	9.3	54.2	10.6
1956	7,296,760	1,083,812	15,344	11,252	47.6	9.6	52.5	10.6
1957	8,079,259	1,201,759	15,346	11,885	52.6	10.1	56.4	10.8
1958	7,379,973	1,317,521	14,154	12,244	52.1	10.8	55.1	11.4
1959	7,473,336	1,556,800	14,662	13,361	51.0	11.7	53.8	12.3
1960	7,420,181	1,789,970	14,664	14,135	50.6	12.7	53.3	13.4
1961	7,565,582	1,996,241	15,185	14,691	49.8	13.6	52.7	14.4
1962	7,774,051	2,145,301	15,495	15,365	50.2	14.0	53.0	14.8
1963	7,965,743	2,328,030	15,741	16,271	50.6	14.3	53.5	15.1
1964	8,017,078	2,387,689	15,691	17,138	51.1	13.9	54.0	14.7
1965	8,158,298	2,494,542	15,930	17,652	51.2	14.1	53.0	14.6
1966	8,726,423	2,702,759	16,925	18,984	51.6	14.2	51.7	14.2
1967	9,375,727	2,898,741	18,100	20,087	51.8	14.4	51.8	14.4
1968	9,794,826	3,168,688	18,593	21,548	52.7	14.7	51.4	14.3
1969	10,426,680	3,455,615	18,886	22,838	55.2	15.1	51.8	14.2
1970	11,173,726	3,745,680	20,401	24,154	54.8	15.5	49.6	14.0
1971	11,692,998	4,085,482	20,033	24,805	58.4	16.5	51.3	14.5
1972	11,706,510	4,180,462	20,041	24,792	58.4	16.9	49.0	14.2
1973	13,057,905	4,894,072	19,493	24,746	67.0	19.8	49.7	14.7
1974	21,580,549	6,573,402	18,575	23,689	116.2	27.7	72.6	17.3

Sources: Dollar value and production, U.S. Bureau of Mines
U.S. Bureau of Labor Statistics, Wholesale Price Index
Price at wellhead computed by the American Petroleum Institute

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

	VALUE (Thousand dollars)		PRODUCTION (Trillion BTU)		PRICE AT WELLHEAD (Cents per million BTU)		PRICE AT WELLHEAD (1967 constant cents per million BTU)	
Year	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1975	$23,116,059	$ 8,945,062	17,729	20,531	130.4	43.6	74.5	24.9
1976	24,229,540	11,571,776	17,262	20,371	140.4	56.8	76.7	31.0
1977	25,790,722	15,824,954	17,454	20,025	147.8	77.4	76.1	39.9
1978	28,477,824	18,084,914	18,420	20,393	154.4	88.7	73.8	42.4
1979	39,051,332	24,113,634	18,064	20,901	216.7	115.4	92.0	49.0
1980	65,722,016	32,043,704	18,249	20,482	360.2	156.4	134.1	58.2
1981	99,396,384(1)	39,551,253	18,147	20,255	547.8	190.3	186.7	64.9
1982	90,029,512(1)	45,496,765	18,309	18,797	491.7	242.0	164.3	80.9
1983	82,745,734(1)	41,846,600	18,325	16,419	451.5	254.9	149.0	84.1

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(1) Estimate computed by API based on wellhead price times production.

Sources: Dollar value and production, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Price at wellhead computed by the American Petroleum Institute

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	$2.90
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	$1.58	2.20
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	$1.82	$2.48	$2.48	$2.46	$2.48	$2.46	$2.60	$2.73	$2.71	$2.69	$2.92	$2.82	$2.77	$2.77
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1.94	2.59	2.58	2.52	2.47	2.25	2.18	2.20	2.26	2.58	2.70	2.65	2.56	2.41
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85
New York	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64
North Dakota	-	-	-	-	-	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96
Utah	-	-	-	-	-	-	-	-	-	-	2.27	2.99	2.86	2.74
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51
Other	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.91	2.93	2.94	2.45
Total	1.93	2.60	2.54	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90	2.88

Source: U.S. Bureau of Mines. Annual Petroleum Statements

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	$2.75	$2.59	$2.59	$2.60	$2.61	$2.60	$2.65	$2.67	$2.70	$2.84	$3.00	$3.07	$3.58	$8.54	$10.13	$10.57	9.67	10.77	14.94	20.57
Alaska	2.79	3.04	3.04	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03	5.84	6.02	10.74	15.63
Arizona	-	-	-	-	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29	12.30
Arkansas	2.75	2.66	2.66	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	12.94	14.73	24.17
California	2.43	2.50	2.48	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	7.22	12.60	22.72
Colorado	2.88	2.88	2.88	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	9.92	13.14	20.69
Florida	-	-	-	-	-	-	-	-	-	-	-	3.18	4.59	9.66	11.71	11.24	11.67	12.00	13.07	18.84
Illinois	2.99	2.98	2.98	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.80	23.49	35.36
Indiana	2.98	2.98	2.96	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.29	23.56	35.15
Kansas	2.89	2.91	2.91	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	22.00	34.21
Kentucky	2.97	2.95	2.92	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.58	34.98
Louisiana	3.15	3.15	3.12	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.42	11.40	19.38
Michigan	2.92	2.85	2.85	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	12.34	14.94	21.55
Mississippi	2.82	2.78	2.76	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	8.11	13.95	15.80
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Montana	2.42	2.42	2.44	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.25	12.39	22.24
Nebraska	2.85	2.83	2.83	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	16.75	30.49
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	2.86	2.88	2.88	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.01	14.06	23.82
New York	4.76	4.60	4.59	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	14.74	23.78	37.39
North Dakota	2.72	2.75	2.73	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	8.55	12.00	14.99
Ohio	3.09	3.10	3.15	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.81	22.52	36.23
Oklahoma	2.91	2.92	2.91	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	10.90	15.03	27.38
Pennsylvania	4.71	4.57	4.56	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.77	24.09	37.44
South Dakota	-	-	-	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.13	25.28	28.75
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.51	13.72	13.75	12.70	20.26	34.29
Texas	2.97	2.99	2.97	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.62	21.59
Utah	2.75	2.74	2.72	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41	19.80
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	4.14	4.00	3.99	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.50	28.00	37.00
Wyoming	2.50	2.49	2.50	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	8.50	21.37
Other	2.31	2.10	2.06	2.14	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	8.72	6.33	11.22	10.98	9.82	12.41	19.14
Total	2.89	2.90	2.89	2.88	2.86	2.88	2.92	2.94	3.09	3.18	3.39	3.39	3.89	6.74	7.56	8.14	8.57	8.96	12.51	20.89

(1) Included with other

Source: U.S. Bureau of Mines. Annual Petroleum Statements

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	12.0	12.0	12.2
Arizona	-	-	-	-	-	-	-	-	-	14.0	-	-	-	-
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1
Maryland	-	-	-	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	-	-	25.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1
Nebraska	-	-	-	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8
South Dakota	6.0	6.5	6.3	-	5.0	5.0	5.0	5.0	-	-	-	-	-	-
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0
Total	6.0	6.5	6.3	6.5	7.3	7.8	9.2	10.1	10.4	10.8	11.3	11.9	12.9	14.0

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	7.4	9.8	11.8	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5
Alaska	20.4	21.4	24.7	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9
Arizona	-	11.9	12.1	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2
Arkansas	13.5	14.9	15.5	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0
California	28.3	29.0	29.3	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0
Colorado	11.6	11.6	11.7	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0
Florida	18.9	20.7	20.0	13.5	12.9	14.2	14.8	15.2	15.7	-	29.9	32.0	34.3	53.6	97.3	98.2
Illinois	12.8	14.3	12.9	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5
Indiana	20.1	21.1	23.4	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0
Kansas	12.5	12.4	13.3	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0
Kentucky	24.8	24.8	23.9	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0
Louisiana	18.7	19.7	19.8	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0
Maryland	27.2	27.0	26.9	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3
Michigan	21.1	21.3	27.1	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5
Mississippi	18.6	19.0	18.0	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0
Missouri	24.7	25.0	27.0	24.3	24.5	-	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5
Montana	7.4	7.4	7.5	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5
Nebraska	16.7	18.2	18.8	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3
New Mexico	10.9	11.5	11.9	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5
New York	29.5	28.1	29.5	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0
North Dakota	12.6	13.7	19.1	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0
Ohio	24.9	25.6	24.2	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8
Oklahoma	12.1	12.8	13.0	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2
Pennsylvania	29.4	27.2	26.0	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5
Tennessee	18.3	18.5	18.9	19.5	19.0	-	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0
Texas	12.3	12.3	12.5	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8
Utah	15.7	16.8	18.2	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5
Virginia	27.1	27.1	23.4	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0
West Virginia	27.4	27.5	26.6	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0
Wyoming	12.5	14.6	14.2	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0
Total	15.1	15.5	15.8	15.4	15.6	15.7	16.0	16.4	16.7	17.1	18.2	18.6	21.6	30.4	44.5	58.0

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1977	1978	1979	1980	1981	1982
Alabama	147.0	150.0	203.9	318.6	477.0	344.0
Alaska	40.2	52.1	51.8	73.2	62.0	63.0
Arizona	33.5	37.0	41.3	NA	NA	259.0
Arkansas	58.5	75.0	95.9	69.6	181.0	213.0
California	116.9	135.7	170.5	217.0	257.0	309.0
Colorado	81.0	84.0	141.0	147.0	197.0	317.0
Florida	108.9	139.0	157.2	173.0	271.0	246.0
Illinois	120.0	129.0	186.1	190.0	247.0	262.0
Indiana	69.0	71.0	105.4	135.0	208.0	155.0
Kansas	48.5	57.0	75.6	77.2	92.0	151.0
Kentucky	55.0	58.0	94.7	89.3	101.0	152.0
Louisiana	70.3	83.6	111.5	160.7	207.0	260.0
Maryland	39.0	61.4	103.6	45.6	48.0	78.0
Michigan	101.0	119.7	174.0	235.5	286.0	319.0
Mississippi	73.0	114.6	160.0	231.7	321.0	391.0
Missouri	42.0	--	--	--	--	--
Montana	71.9	84.7	121.1	145.4	191.0	215.0
Nebraska	65.2	68.0	85.0	82.9	145.0	199.0
New Mexico	81.0	98.8	136.6	175.8	213.0	247.0
New York	116.0	119.0	126.6	194.9	267.0	375.0
North Dakota	35.3	46.2	128.0	118.8	194.0	230.0
Ohio	139.7	157.0	180.5	197.7	217.0	271.0
Oklahoma	79.0	90.2	112.4	150.7	188.0	274.0
Oregon	--	--	213.0	240.0	260.0	333.0
Pennsylvania	80.0	86.0	132.6	212.7	233.0	280.0
South Dakota	--	--	210.7	NA	275.0	308.0
Tennessee	74.0	164.0	170.0	176.0	255.0	300.0
Texas	90.3	99.5	123.4	156.5	187.0	217.0
Utah	61.2	64.3	71.6	111.7	110.0	306.0
Virginia	126.0	131.3	168.1	285.0	215.0	369.0
West Virginia	61.0	65.8	105.0	300.0	300.0	320.0
Wyoming	64.0	79.3	113.0	192.0	277.0	322.0
Total	79.0	90.5	117.8	159.0	198.0	246.0

Source: U.S. Energy Information Administraton, Natural Gas Annuals

Section VI
Table 10

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)
Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

CRUDE & GRAVITY		1970	1971(1)	1972	1973(1)				1974			1975		1977	
		31 Aug	15 Feb	20 Jan	1 Jan	1 Oct	16 Oct	1 Nov	1 Jan	1 July	1 Nov	1 Jan	1 Oct	1 Jan	1 July
PERSIAN/ARABIAN GULF CRUDES															
Saudi Arabia															
Arab Light	34°	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66
Arab Berri	39	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22
Arab Medium	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25
Arab Heavy	27	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92
Iran															
Iran Light	34	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77
Iran Heavy	31	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43
Kuwait															
Kuwait	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	NA	NA
Abu Dhabi															
Murban	39	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26
Marine (Umm Shaif)	37	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.02
Zakum	40	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16
Iraq															
Basrah	35	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	NA	NA
Qatar															
Dukhan	40	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18
Marine	36	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.98	13.98
Oman															
Oman	34	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98
MEDITERRANEAN & AFRICAN CRUDES															
Saudi Arabia															
Arab Light	34	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	NA	NA
Iraq															
Kirkuk	36	2.21	2.41	3.40	3.48	4.24	7.21	7.29	NA	NA	NA	NA	NA	NA	NA
Libya															
Libya	40	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.06	18.25	18.78
Nigeria															
Nigeria	34	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	NA	NA
VENEZUELAN CRUDES (Reference Prices)															
Venezuela															
Tia Juana	26	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	NA	NA
Tia Juana	31	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	NA	NA
Oficina	35	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	NA	NA

NA Not Available

(1) Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.

Source: Petroleum Intelligence Weekly

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)

Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

PERSIAN/ARABIAN GULF CRUDES

CRUDE & GRAVITY		1979 1 Jan
Saudi Arabia		
Arab Light	34°	14.34
Arab Berri	39	14.93
Arab Medium	31	13.91
Arab Heavy	27	13.57
Iran		
Iran Light	34	14.45
Iran Heavy	31	14.10
Kuwait		
Kuwait	31	NA
Abu Dhabi		
Murban	39	14.97
Marine (Umm Shaif)	37	14.72
Zakum	40	14.87
Iraq		
Basrah	35	NA
Qatar		
Dukhan	40	14.89
Marine	36	14.68
Oman		
Oman	34	14.68

NOTE:
Posted prices are no longer available

MEDITERRANEAN & AFRICAN CRUDES

CRUDE & GRAVITY		1979 1 Jan
Saudi Arabia		
Arab Light	34	NA
Iraq		
Kirkuk	36	NA
Libya		
Libya	40	19.72
Nigeria		
Nigeria	34	NA

VENEZUELAN CRUDES (Reference Prices)

CRUDE & GRAVITY		1979 1 Jan
Venezuela		
Tia Juana	26	NA
Tia Juana	31	NA
Oficina	35	NA

NA Not Available

Source: Petroleum Intelligence Weekly

Section VI
Table 11

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1974				1975		1976			1977	
		1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July
						PERSIAN / ARABIAN CRUDES						
Saudi Arabia												
Arab Light	34°	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70
Arab Berri	39	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22
Arab Medium	31	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32
Arab Heavy	27	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02
Iran												
Iran Light	34	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81
Iran Heavy	31	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49
Kuwait												
Kuwait	31	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27
Abu Dhabi												
Murban	39	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26
Umm Shaif	37	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04
Zakum	40	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17
Iraq												
Basrah	35	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46[e]	12.65[e]	12.65[e]
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60[e]	11.65	11.70[e]	12.89[e]	12.85[e]
Qatar												
Dukhan	40	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19
Marine	36	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00
Oman												
Oman	34	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70[e]	12.74	13.00
						MEDITERRANEAN AND AFRICAN CRUDES						
Iraq												
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	10.67	11.74[e]	11.95[e]	N.A.	N.A.	N.A.	13.50
Libya												
Brega	40	N.A.	N.A.	N.A.	N.A.	11.20	12.32	12.32	12.32	12.62	13.92	14.20
Nigeria												
Bonny	37	N.A.	N.A.	N.A.	N.A.	11.43	12.60	12.84	12.89	13.10	14.33	14.63
						OTHER CRUDES						
Indonesia												
Sumatra Light	35	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55
Venezuela												
Tia Juana	26	N.A.	N.A.	N.A.	N.A.	11.62	11.39	11.12	11.22	11.65	12.72	12.71
Tia Juana	31	N.A.	N.A.	N.A.	N.A.	11.05	12.06	12.30	12.30	12.30	12.35	13.54
Oficina	35	N.A.	N.A.	N.A.	N.A.	11.49	12.54	12.80	12.80	12.80	13.99(2)	N.A.
Ecuador												
Oriente	30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60	11.60	13.00	13.00

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[e] Estimates by PIW
N.A. Not available

(1) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining and equity interest in Middle East oil producing ventures.

(2) Estimate by Petroleum Economist, October 1977

Source: Petroleum Intelligence Weekly

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1979			1980		1981		1982	1983	1985
		1 Jan.	1 Apr.	1 July	1 Jan.	1 June	19 Feb.	1 Nov.	1 Jan.	Mar.	Feb.
PERSIAN / ARABIAN CRUDES											
Saudi Arabia											
Arab Light	34°	13.34	14.55	18.00	26.00	28.00	32.00	34.00	34.00	29.00	28.00
Arab Berri	39	14.06	16.47	21.32	27.52	29.52	33.52	35.60	35.40	29.50	28.11
Arab Medium	31	12.89	14.05	17.54	25.45	27.45	31.45	33.00	32.40	27.40	27.40
Arab Heavy	27	12.51	13.64	17.17	25.00	27.00	31.00	31.50	31.00	26.00	26.50
Iran											
Iran Light	34	13.45	16.57	22.00(e)	28.50	35.37	37.00	34.60	34.20	28.00	28.05
Iran Heavy	31	13.06	16.04	19.90(e)	27.77	34.37	36.00	33.40	32.30	27.30(e)	27.35
Kuwait											
Kuwait	31	12.83	15.80	19.49	25.50	29.50	35.50	33.00	32.30	27.30	27.30
Abu Dhabi											
Murban	39	14.10	17.10	21.56	27.56	31.56	36.56	35.70	35.50	29.56	28.15
Umm Shaif	37	13.78	16.88	21.36	27.36	31.36	36.36	35.50	35.30	29.36	28.05
Zakum	40	14.01	17.01	21.46	27.46	31.46	36.46	35.60	35.40	29.46	28.10
Iraq											
Basrah Light	35	13.29	15.70	19.96	25.96	29.96	35.96	34.67	32.65(e)	28.46(e)	
Kirkuk	36	13.52	15.95	21.25	26.18	30.18	37.50	35.11	34.93	29.83	
Qatar											
Dukhan	44	14.03	17.04	21.42	27.42	31.42	37.42	35.65	35.45	29.49	28.10
Marine	36	13.77	16.85	21.23	27.23	31.23	37.23	35.50	35.30	29.30	28.05
Oman											
Oman	36	13.65(e)	14.88(e)	N.A.	30.26	35.56	37.56	34.06	35.06	30.06	
MEDITERRANEAN AND AFRICAN CRUDES											
Libya											
Brega	40	14.69	18.25	23.45	34.67	36.67	41.00	37.50	37.00	30.50	
Nigeria											
Bonny	37	14.80	18.50	23.49	29.99	36.71	40.02	36.52	36.52	30.00	28.67
OTHER CRUDES											
Indonesia											
Sumatra Light	34	14.23(e)	15.51(e)	N.A.	27.50	31.50	35.00	35.00	35.00	29.53	28.53
Venezuela											
Tia Juana	26	13.36	15.76	19.31	25.20	29.28	32.88	32.88	32.88	27.88	27.60
Tia Juana	31	14.22	16.70	20.90	26.90	32.40	36.00	35.00	35.00	29.84	28.24
Oficina	34	14.69	17.21	22.45	28.75	34.25	38.06	37.06	37.06	31.09	28.80
Ecuador											
Oriente	30	13.18	20.60	N.A.	31.00	N.A.	39.30(e)	33.15	33.25	28.25	

(e) Estimate

(1) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining an equity interest in Middle East oil producing ventures. Some prices are retroactive to prior dates.

N.A. Not available

Source: Petroleum Intelligence Weekly

AVERAGE U.S. RETAIL GASOLINE PRICES(1) FOR SELECTED CITIES
(Cents per gallon)

	1920	1930	1940	1950	1960	1970	1971	1972	1973	1974	1975	1976	1977
Average U.S.	29.83	19.95	18.41	26.76	31.13	35.69	36.43	36.13	38.82	52.41	57.22	59.47	63.07
Alabama, Birmingham	30.04	20.50	21.71	29.33	31.23	35.23	35.62	36.79	38.57	51.67	53.15	58.25	64.00
Arizona, Phoenix	32.50	20.71	21.25	26.47	26.57	35.07	35.90	35.40	38.28	51.32	57.73	60.48	63.65
Arkansas, Little Rock	30.42	17.63	20.83	29.17	29.48	34.32	35.57	34.65	36.98	50.66	57.34	60.32	64.40
California, Los Angeles	-	-	-	-	29.57	34.15	35.32	34.47	38.04	52.28	57.88	60.49	64.23
California, San Francisco	24.17	20.00	17.88	25.12	32.23	35.82	35.82	35.30	39.07	53.30	59.46	61.49	65.15
Colorado, Denver	31.42	19.50	18.38	26.46	33.40	33.73	36.48	35.15	38.87	52.25	58.18	61.23	64.07
Connecticut, Hartford	33.00	19.13	14.48	23.63	29.32	36.98	37.82	37.65	40.98	54.63	57.57	59.99	63.83
District of Columbia	29.46	17.23	15.08	25.36	30.32	35.73	36.05	37.65	39.07	54.33	58.48	60.40	64.31
Florida, Miami(2)	29.25	21.50	19.33	28.03	31.40	35.07	34.65	35.98	38.15	51.31	54.98	57.15	58.82
Georgia, Atlanta	30.04	22.17	20.42	29.71	31.87	35.01	36.23	36.15	38.57	52.59	58.23	58.99	63.65
Idaho, Boise	33.63	26.41	24.18	30.65	37.42	35.07	34.98	35.11	39.95	53.34	59.82	62.22	65.48
Illinois, Chicago	27.17	18.17	15.58	23.30	31.90	38.62	37.60	36.36	40.61	54.74	58.60	60.90	65.74
Indiana, Indianapolis	-	-	-	-	30.73	37.23	37.57	35.56	39.26	53.17	59.08	59.70	62.74
Iowa, Des Moines	27.42	18.33	16.78	25.08	31.57	35.32	36.32	37.23	38.45	51.17	57.32	60.33	64.79
Kansas, Wichita	26.80	15.30	14.99	24.70	29.15	32.98	32.98	32.40	37.78	51.17	57.32	61.33	63.49
Kentucky, Louisville	-	-	-	-	32.80	36.65	37.48	37.28	40.31	53.83	58.20	61.25	64.90
Louisiana, New Orleans	27.75	15.17	20.66	30.17	29.07	35.73	35.57	34.06	36.48	49.74	56.09	60.40	63.74
Maryland, Baltimore	29.58	18.77	17.88	25.74	31.65	35.65	36.07	37.65	39.23	51.21	56.70	58.48	62.46
Massachusetts, Boston	32.63	17.96	14.19	24.18	26.98	35.73	36.57	35.98	39.07	52.40	55.98	58.23	61.16
Michigan, Detroit	28.12	18.28	15.53	25.17	30.93	33.82	34.35	34.23	39.53	53.86	59.42	57.65	62.07
Mississippi, Jackson	-	-	-	-	32.23	35.48	37.52	34.91	38.48	52.09	54.17	57.15	62.29
Missouri, St. Louis	27.58	17.07	16.43	23.04	27.15	34.07	36.15	35.65	39.20	52.17	57.65	59.48	63.40
Montana, Great Falls	-	-	-	-	36.90	36.36	36.57	35.23	39.95	53.17	59.42	60.85	65.44
Nebraska, Omaha	27.25	20.08	17.97	26.75	32.53	37.82	37.40	37.48	40.03	53.17	59.40	63.15	66.15
New Hampshire, Manchester	32.04	21.12	16.02	24.97	30.07	36.40	38.23	37.65	40.07	54.48	56.48	59.40	62.98
New Jersey, Newark	29.88	17.12	15.78	23.18	28.32	37.40	38.07	36.32	38.57	52.30	54.73	55.65	59.40
New Mexico, Albuquerque	32.25	21.00	19.92	30.25	32.90	36.73	36.90	36.48	38.29	52.65	58.98	59.53	63.59
New York, Buffalo	30.92	18.07	16.30	26.15	27.92	36.11	36.28	37.15	40.07	55.38	58.65	61.37	64.61
New York, New York	31.92	17.36	16.11	26.50	31.40	36.93	39.18	44.56	43.73	59.75	61.15	61.81	64.31
North Carolina, Charlotte	31.33	20.94	20.32	29.37	31.03	35.32	37.36	37.31	39.32	51.99	56.76	60.42	61.95
Ohio, Cincinnati	-	-	-	-	31.40	36.65	37.90	37.90	38.65	53.36	57.19	57.23	60.65
Ohio, Cleveland	-	-	-	-	32.32	36.65	37.90	37.80	38.65	53.36	57.19	57.23	60.40
Oklahoma, Tulsa	27.75	19.25	14.58	26.75	30.48	35.07	35.07	34.73	37.53	50.33	56.44	59.46	63.74
Oregon, Portland	26.79	20.96	20.38	27.98	33.65	35.32	35.82	35.48	38.39	51.70	55.50	57.23	61.49
Pennsylvania, Philadelphia	32.00	20.58	15.49	25.19	28.48	36.48	37.23	36.74	37.90	52.88	53.90	56.73	61.40
Rhode Island, Providence	32.63	17.48	14.66	24.08	27.06	36.23	36.90	36.15	38.32	52.57	55.90	58.57	62.15
South Carolina, Charleston	29.17	20.86	20.10	28.07	30.94	34.32	35.73	36.65	38.40	52.88	54.39	57.90	61.23
Tennessee, Memphis	29.00	19.04	22.22	28.22	29.65	35.57	35.48	35.48	37.48	50.51	57.17	59.65	64.07
Texas, Dallas	-	-	-	-	29.23	32.73	33.90	33.15	34.37	47.17	53.53	56.40	59.90
Texas, El Paso	-	-	-	-	28.88	34.73	36.90	35.90	36.29	47.98	55.95	57.40	60.65
Texas, Houston	29.13	18.83	17.17	24.00	29.32	32.23	32.82	32.34	33.90	47.28	52.40	56.40	60.15
Utah, Salt Lake City	31.88	22.67	19.88	24.42	30.90	34.32	34.98	35.56	37.37	50.17	56.32	58.45	60.94
Virginia, Norfolk	30.08	19.86	20.38	27.33	31.23	35.57	35.23	36.90	39.48	52.73	56.23	60.07	63.98
Washington, Seattle	-	-	-	-	29.57	36.40	36.73	36.35	39.42	52.22	57.18	59.98	64.23
Washington, Spokane	28.92	23.83	21.92	30.63	36.73	36.40	36.57	35.95	39.07	52.72	56.68	60.13	63.87
West Virginia, Charleston	30.33	20.46	20.68	29.23	31.32	35.73	37.73	38.40	39.56	51.23	57.57	59.07	63.14
Wisconsin, Milwaukee	27.35	17.43	19.15	24.90	30.98	33.15	34.48	33.73	38.37	52.13	58.15	58.40	61.40

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(1) Regular grade gasoline at full service stations, retail price including tax.
(2) Prices prior to 1970 are for Jacksonville.

Source: Data for 1920-1950, Texaco Inc.; 1960-1977, Platt's Oilgram Price Service
Note: The list of selected cities has been changed.

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES

(Dollars per Gallon)

Area[2]	1978		1979		1980		1981		1982		1983	
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded
U.S. City Average	.627	.670	.857	.903	1.191	1.245	1.311	1.378	1.222	1.296	1.157	1.241
Anchorage, Alaska	.744	.767	.921	.952	1.241	1.275	1.408	1.465	1.380	1.446	1.253	1.339
Atlanta, Ga.	.624	.668	.843	.890	1.197	1.251	1.328	1.397	1.234	1.319	1.143	1.248
Baltimore Md.	.613	.666	.844	.891	1.204	1.251	1.334	1.389	1.288	1.335	1.244	1.296
Boston, Ma.	.623	.660	.857	.899	1.199	1.241	1.337	1.391	1.234	1.283	1.155	1.225
Buffalo, NY.	.644	.687	.899	.948	1.235	1.280	1.336	1.394	1.248	1.306	1.222	1.288
Chicago Ill-NW Ind.	.680	.730	.925	.979	1.246	1.304	1.344	1.410	1.264	1.321	1.223	1.298
Cincinnati, Oh-Ky-Ind.	.618	.655	.842	.882	1.154	1.206	1.275	1.345	1.217	1.293	1.187	1.257
Cleveland, Oh	.621	.665	.839	.884	1.160	1.203	1.304	1.385	1.269	1.327	1.175	1.248
Dallas-Ft Worth, Tx	.579	.617	.789	.833	1.132	1.186	1.245	1.307	1.140	1.209	1.081	1.158
Denver-Boulder, Colo.	.612	.663	.838	.886	1.150	1.217	1.259	1.330	1.197	1.273	1.091	1.197
Detroit, Mich.	.643	.696	.891	.947	1.242	1.303	1.335	1.395	1.247	1.304	1.227	1.280
Honolulu, Hawaii	.759	.764	.937	.976	1.298	1.355	1.409	1.567	1.472	1.542	1.400	1.462
Houston, Tx	.567	.613	.794	.835	1.139	1.183	1.261	1.313	1.143	1.212	1.040	1.132
Kansas City, Mo-Kn	.604	.644	.843	.886	1.137	1.190	1.237	1.298	1.195	1.262	1.155	1.226
Los Angeles, Long Beach, Anaheim, Ca.	.644	.691	.892	.943	1.213	1.271	1.337	1.409	1.232	1.318	1.166	1.215
Miami, Fla	.611	.661	.841	.892	1.186	1.235	1.319	1.389	1.257	1.364	1.207	1.326
Milwaukee, Wisc	.595	.631	.819	.864	1.139	1.198	1.273	1.329	1.245	1.286	1.190	1.224
Minneapolis, St. Paul, Minn-Wisc.	.618	.654	.860	.901	1.175	1.231	1.294	1.360	1.253	1.328	1.211	1.284
New York, NY-NE N.J.	.632	.675	.882	.927	1.241	1.286	1.355	1.413	1.249	1.319	1.181	1.257
NE Penn	.610	.650	.837	.879	1.178	1.218	1.306	1.353	1.197	1.242	1.157	1.208
Philadelphia,Pa-NJ.	.618	.658	.855	.904	1.192	1.233	1.309	1.365	1.188	1.255	1.149	1.210
Pittsburgh, Pa.	.628	.663	.857	.893	1.205	1.242	1.356	1.409	1.234	1.312	1.147	1.233
Portland, Ore-Wash	.636	.681	.870	.907	1.193	1.226	1.317	1.381	1.257	1.337	1.121	1.230
St. Louis, Mo-Ill.	.607	.656	.851	.897	1.145	1.208	1.230	1.299	1.151	1.213	1.111	1.164
San Diego, Ca.	.636	.691	.881	.932	1.215	1.280	1.323	1.408	1.240	1.339	1.157	1.253
San Fran-Oakland, Ca.	.661	.717	.899	.961	1.243	1.310	1.355	1.436	1.260	1.353	1.154	1.290
Seattle-Everett, Wash.	.650	.677	.877	.917	1.211	1.253	1.335	1.401	1.227	1.271	1.145	1.182
Washington, DC-Md-Va.	.651	.702	.853	.906	1.224	1.276	1.334	1.393	1.256	1.304	1.232	1.288
Region (3)												
Northeast	.631	.672	.870	.913	1.220	1.260	1.344	1.396	1.238	1.298	1.181	1.248
North Central	.628	.671	.861	.910	1.183	1.244	1.303	1.370	1.233	1.298	1.191	1.261
South	.611	.654	.831	.863	1.172	1.223	1.293	1.360	1.196	1.272	1.132	1.217
West	.643	.695	.879	.936	1.201	1.267	1.323	1.405	1.233	1.325	1.132	1.238

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(1) Regular grade gasoline - leaded and unleaded

(2) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are are the more extensive Standard Consolidated Areas.

(3) Regions are defined as the four Census regions.

SOURCE: U.S. Bureau of Labor Statistics

Average Price of Natural Gas Consumed by End Use Sector
(Dollars per Thousand Cubic Feet)

Year	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers					Total Consumption
			Residential	Commercial(1)	Industrial	Electric Utilities	Total	
1967	0.15	0.20	1.04	0.74	0.34	0.28	0.57	0.53
1968	0.16	0.20	1.04	0.73	0.34	0.22	0.55	0.51
1969	0.18	0.21	1.05	0.74	0.35	0.27	0.57	0.53
1970	0.18	0.21	1.09	0.77	0.37	0.29	0.59	0.55
1971	0.19	0.22	1.15	0.82	0.41	0.32	0.63	0.59
1972	0.20	0.23	1.21	0.88	0.45	0.34	0.68	0.63
1973	0.21	0.25	1.29	0.94	0.50	0.38	0.73	0.68
1974	0.51	0.30	1.46	1.07	0.67	0.51	0.89	0.84
1975	0.47	0.40	1.71	1.35	0.96	0.77	1.19	1.12
1976	0.57	0.51	1.98	1.64	1.24	0.98	1.47	1.37
1977	0.71	0.77	2.35	2.04	1.50	1.32	1.78	1.66
1978	0.79	0.90	2.56	2.23	1.70	1.48	1.98	1.85
1979	1.06	1.32	2.98	2.73	1.99	1.81	2.34	2.21
1980	1.43	1.85	3.68	3.39	2.56	2.27	2.91	2.80
1981	1.93	2.39	4.29	4.00	3.14	2.89	3.51	3.39
1982	2.23	2.97	5.17	4.82	3.87	3.48	4.32	4.15

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(1) Includes deliveries to local, state and federal agencies engaged in non-manufacturing activities.

Source: U. S. Department of Energy, Natural Gas annuals.

COST OF U.S. PETROLEUM IMPORTS
(f.a.s. value)

Year	Quantity[1] (mmb)	Total Value (mm$)	Value Per Barrel
1970	1,353	$ 2,928	$ 2.16
1971	1,565	3,613	2.31
1972	1,874	4,631	2.47
1973	2,470	8,149	3.30
1974	2,411	26,073	10.81
1975	2,382	26,664	11.19
1976	2,850	34,614	12.15
1977	3,192	44,071	13.81
1978	2,903	42,188	14.12
1979	3,194	59,805	18.72
1980	2,566	78,637	30.60
1981	2,236	76,659	34.28
1982	1,921	60,458	31.48
1983	1,862	53,217	28.58
1984	2,205	56,924	28.11

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(1) Includes imports into the Strategic Petroleum Reserve and the U.S. Virgin Islands.

Source: U.S. Department of Commerce, Bureau of the Census, Summary of the U.S. Export and Import Merchandise Trade

BASIC PETROLEUM DATA BOOK

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ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist(1) Nations	Total World
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	N.A.	N.A.
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	N.A.	N.A.
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	N.A.	N.A.
1953	2,776,778	163,237	328,243	3,268,258	57,147	75,196	204,607	550,652	4,155,858	N.A.	N.A.
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	N.A.	N.A.
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	N.A.	N.A.
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	386,546	836,671	5,136,104	N.A.	N.A.
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	N.A.	N.A.
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	N.A.	N.A.
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	7,229,097
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	7,818,752
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	8,424,782
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	9,097,773
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	9,835,302
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	10,573,703
1965	4,202,039	416,873	766,617	5,385,529	285,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	11,385,224
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	12,251,156
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	12,992,982
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	14,252,325
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	15,587,588
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	16,681,650
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	3,622,268	17,698,723
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	18,744,793
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	20,425,752
1974	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,599	16,755,836	3,034,212	19,790,048

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(1) Excludes Cuba

N.A. Not Available

Source: 1950-1958, U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1974, U.S. Bureau of Mines, International Petroleum Annual

Table 1a

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist(1) Nations	Total World
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	19,343,365
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	21,175,836
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	22,242,275
1978	6,879,017	633,868	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	22,964,248
1979	6,757,077	677,805	1,606,730	9,041,612	647,510	512,460	4,146,765	5,488,505	19,836,852	3,928,130	23,764,982
1980	6,242,445	712,602	1,823,046	8,778,093	713,334	533,262	3,269,112	5,060,316	18,354,117	4,715,544	22,069,661
1981	5,861,058	642,400	1,622,425	8,125,883	615,025	571,225	3,157,250	4,761,425	17,230,808	4,807,050	22,037,858
1982	5,582,938	571,225	1,702,725	7,856,888	636,925	602,250	3,040,450	4,562,500	16,096,088	4,812,525	20,908,613
1983	5,559,364	518,300	1,662,575	7,740,239	658,825	609,550	3,033,150	4,449,350	16,491,114	4,834,425	21,325,539

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(1) Excludes Cuba

Source: 1975-1979: U.S. Department of Energy, Energy Information Administration, International Energy Annual
1981-1983: U.S. Energy Information Administration, United States; Rest of World, BP Statistical Review of the World Oil Industry

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

Year	PRODUCTION Crude Oil	PRODUCTION Lease Condensate	PRODUCTION Natural Gas Liquids	Total Imports	Other Refinery Input(1)	Total New Supply	Unaccounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1947	5,087	(4)	362	437	2	5,888	+93	-12	5,993	- 14	6,007	69	451	5,487
1948	5,520	(4)	401	514	1	6,436	+84	- 8	6,528	+293	6,235	69	368	5,798
1949	5,046	(4)	430	646	1	6,123	+42	- 2	6,167	- 8	6,175	39	327	5,809
1950	5,407	(4)	499	850	—	6,756	+98	2	6,856	- 56	6,912	51	305	6,556
1951	6,158	(4)	561	844	1	7,564	+49	7	7,620	+101	7,519	32	422	7,065
1952	6,256	(4)	611	952	1	7,820	+20	7	7,847	+108	7,739	17	422	7,290
1953	6,458	(4)	654	1,034	1	8,147	+ 9	20	8,176	+142	8,034	24	402	7,608
1954	6,342	(4)	691	1,052	1	8,086	+ 8	23	8,117	- 29	8,146	27	355	7,764
1955	6,807	(4)	771	1,248	1	8,827	+ 9	34	8,870	—	8,870	38	368	8,464
1956	7,151	(4)	800	1,436	1	9,388	+ 8	43	9,439	+179	9,260	47	430	8,783
1957	7,170	(4)	808	1,574	1	9,553	+18	42	9,613	+167	9,446	51	568	8,827
1958	6,710	(4)	807	1,700	1	9,218	N.A.	64	9,282	140	9,422	29	275	9,118
1959(5)	7,053	(4)	879	1,780	1	9,713	N.A.	86	9,799	+ 51	9,748	11	211	9,526
1960	7,035	(4)	929	1,815	1	9,780	N.A.	146	9,926	- 83	10,009	9	202	9,798
1961	7,183	(4)	991	1,917	—	10,091	N.A.	179	10,270	+111	10,159	9	174	9,976
1962	7,332	(4)	1,021	2,082	—	10,435	N.A.	175	10,610	+ 32	10,578	9	169	10,400
1963	7,542	(4)	1,098	2,123	—	10,763	N.A.	202	10,965	+ 4	10,961	10	208	10,743
1964	7,614	(4)	1,155	2,258	—	11,027	N.A.	217	11,244	+ 10	11,234	10	201	11,023
1965	7,804	(4)	1,210	2,468	—	11,482	N.A.	220	11,702	- 8	11,710	10	187	11,513
1966	8,295	(4)	1,284	2,573	—	12,152	N.A.	246	12,398	+104	12,294	11	198	12,085
1967	8,811	(4)	1,409	2,537	—	12,757	N.A.	292	13,049	+173	12,876	9	307	12,560
1968	8,660	435	1,504	2,840	9	13,448	+20	319	13,787	+152	13,635	11	231	13,393
1969	8,778	460	1,590	3,166	11	14,005	- 7	335	14,333	- 48	14,381	12	232	14,137
1970	9,180	457	1,660	3,419	17	14,733	-21	359	15,071	+103	14,968	12	259	14,697
1971	9,032	430	1,694	3,925	17	15,098	+41	381	15,520	+ 71	15,449	12	224	15,213
1972	8,998	443	1,744	4,741	28	15,954	+28	388	16,370	-232	16,602	12	223	16,367
1973	8,784	424	1,738	6,256	30	17,232	+ 2	453	17,687	+135	17,552	13	231	17,308
1974	8,375	399	1,688	6,112	36	16,610	-25	480	17,065	+179	16,886	13	221	16,652

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(1) Includes benzol, other hydrocarbons, and hydrogen

(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available

(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply

(4) Separate data not available prior to 1968

(5) Data for this year and those for subsequent years are on a 50-state basis

Source: U.S. Bureau of Mines

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

Year	PRODUCTION Crude Oil	PRODUCTION Lease Con-densate	PRODUCTION Natural Gas Liquids	Total Imports	Other Refinery Input(1)	Total New Supply	Un-accounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1975	8,007	367	1,633	6,056	38	16,101	+16	460	16,577	+ 32	16,545	14	209	16,322
1976	7,776	355	1,604	7,313	38	17,086	+77	477	17,640	- 58	17,698	14	223	17,461
1977	7,875	370	1,619	8,787	50	18,700	- 6	524	19,218	+529	18,689	16	243	18,431(4)
1978	8,353	355	1,567	8,202	53	18,530	-57	496	18,969	-257	19,226	16	362	18,847(4)
1979	8,181	371	1,583	8,389	44	18,568	-11	527	19,084	+ 81	19,001	16	471	18,516(4)
1980	8,210	386	1,573	6,865	44	17,078	+34	597	17,709	+ 94	17,615	14	544	17,056(4)
1981	8,177	395	1,609	5,740	50	15,971	+61	508	16,540	-176	16,716	63	595	16,058(4)
1982	8,262	387	1,550	4,948	53	15,200	-55	531	15,676	-497	16,173	62	815	15,296
1983	8,688	(6)	1,547	4,817	64	15,116	+114	488	15,718	-254	15,972	2	739	15,231

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(1) Includes benzol, other hydrocarbons, and hydrogen

(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available

(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply

(4) Figures do not add due to independent rounding

(5) Excludes oil imported to the strategic petroleum reservve

(6) Included with crude oil. Separate figure is not available.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annual

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE*
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	2,306	1	2,307	92,303	- 1	2,308	130	2,178
1948	2,513	1	2,514	103,756	+32	2,482	102	2,380
1949	2,632	-	2,632	111,443	+21	2,611	108	2,503
1950	2,806	-	2,806	116,769	+14	2,792	68	2,724
1951	3,122	1	3,123	134,867	+28	3,095	110	1,985
1952	3,219	4	3,223	134,737	+ 1	3,222	99	3,123
1953	3,470	1	3,471	157,872	+64	3,407	104	3,303
1954	3,456	-	3,456	155,400	- 7	3,463	94	3,369
1955	3,764	1	3,765	165,433	+27	3,738	95	3,643
1956	3,904	4	3,908	187,271	+59	3,849	97	3,752
1957	3,940	8	3,948	196,776	+26	3,922	106	3,816
1958	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959(2)	4,079	36	4,115	187,613	-	4,115	46	4,069
1960	4,160	27	4,187	194,774	+20	4,167	37	4,130
1961	4,199	29	4,228	195,830	+ 3	4,225	25	4,200
1962	4,338	38	4,376	190,138	+16	4,360	18	4,342
1963	4,452	44	4,496	190,937	+ 6	4,490	19	4,471
1964	4,539	29	4,568	193,633	+21	4,547	17	4,530
1965	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,911	43	4,954	194,177	+30	4,924	11	4,913
1967	5,057	42	5,099	207,980	+37	5,062	14	5,048
1968	5,301	59	5,360	211,526	+10	5,350	6	5,344
1969	5,557	62	5,619	217,392	+16	5,603	7	5,596

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(2) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 3a

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE*
(Daily Averages in Thousands of Barrels)

Year	Supply			Stocks as of Dec. 31 (thousands of barrels)	Demand			
	Production	Imports	New Supply		Change in Stocks	Total Demand	Exports	Domestic Demand
1970	5,768	67	5,835	214,348	- 8	5,843	4	5,839
1971	6,034	59	6,093	223,771	+25	6,068	5	6,063
1972	6,339	68	6,407	217,149	-18	6,425	2	6,423
1973	6,580	132	6,712	213,417	-11	6,723	5	6,718
1974	6,404	204	6,608	221,881 (3)	+23	6,585	3	6,582
1975	6,558	184	6,742	238,002	+27	6,715	2	6,713
1976	6,877	131	7,008	234,272	-10	7,018	4	7,014
1977	6,982	218	7,200	257,623	+64	7,136	2	7,134
1978	7,117	190	7,307	241,002	-54	7,361	2	7,358
1979	6,889	181	7,070	239,919	- 3	7,073	—	7,073
1980	6,541	140	6,681	264,205 (4)	+66	6.615	--	6,615
1981	6,437	157	6,594	256,425	-27	6,621	2	6,619
1982	6,362	197	6,559	246,935	-26	6,584	20	6,564
1983	6,365	248	6,613	225,042	-45	6,658	10	6,648

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* Includes motor and aviation gasoline.

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels.

(4) U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 265,802 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual.
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual

Section VII
Table 4

TOTAL U.S. SUPPLY AND DEMAND FOR MOTOR GASOLINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1964(1)	4,399	29	4,428	185,766	+23	4,405	2	4,403
1965	4,537	27	4,564	174,717	-30	4,594	1	4,593
1966	4,798	43	4,841	186,393	+31	4,810	2	4,808
1967	4,956	42	4,998	200,055	+ 7	4,961	3	4,958
1968	5,215	59	5,274	204,496	+13	5,261	1	5,260
1969	5,484	62	5,546	211,199	+18	5,528	2	5,526
1970	5,714	67	5,781	209,255	- 5	5,786	1	5,785
1971	5,984	59	6,043	219,352	+28	6,015	1	6,014
1972	6,292	68	6,360	212,894	-18	6,378	1	6,377
1973	6,535	134	6,669	209,478	-10	6,679	4	6,675
1974	6,360	204	6,564	218,410(2)	+24	6,540	2	6,538
1975	6,520	184	6,704	234,978	+28	6,676	2	6,674
1976	6,841	130	6,971	231,432	-10	6,679	4	6,675
1977	7,033	217	7,250	257,623	+73	7,177	2	7,175
1978(4)	7,335	190	7,525	237,979	-54	7,579	1	7,578
1979(4)	7,120	181	7,301	237,200	- 1	7,302	0(3)	7,302
1980(4)	6,814	140	6,954	261,398	+66	6,888	1	6,887
1981	6,405	157	6,562	253,001	-28	6,590	2	6,588
1982	6,338	197	6,535	243,876	-25	6,560	20	6,539
1983	6,340	247	6,587	222,434	-45	6,632	10	6,622

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(1) Data prior to 1964 is not available on a comparable basis.

(2) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.

(3) Totals do not add due to independent rounding.

(4) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplies. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980. The stock reporting base was also altered as of January 1981. On the new basis, year-end 1980 stocks were 263,003 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Bureau of Mines, Annual Petroleum Statements.
U.S. Department of Energy, Annual Petroleum Statements and Petroleum Supply Annuals.

Section VII
Table 5

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	864	12	876	51,081	- 23	899	82	817
1948	1,046	7	1,053	71,429	+ 64	989	58	931
1949	941	5	946	75,207	+ 10	936	34	902
1950	1,100	7	1,107	71,948	- 10	1,117	35	1,082
1951	1,311	5	1,316	86,619	+ 29	1,287	62	1,225
1952	1,422	8	1,430	99,375	+ 35	1,395	92	1,303
1953	1,452	9	1,461	111,741	+ 35	1,426	89	1,337
1954	1,490	9	1,499	108,144	- 9	1,508	66	1,442
1955	1,656	12	1,668	111,333	+ 9	1,659	67	1,592
1956	1,825	14	1,839	133,981	+ 62	1,777	94	1,683
1957	1,838	23	1,861	149,449	+ 42	1,819	131	1,688
1958	1,734	41	1,775	125,101	- 67	1,842	52	1,790
1959 (1)	1,865	48	1,913	151,164	+ 70	1,843	35	1,808
1960	1,830	35	1,865	138,455	- 34	1,899	27	1,872
1961	1,911	47	1,958	152,018	+ 37	1,921	19	1,902
1962	1,975	33	2,008	144,505	- 21	2,029	22	2,007
1963	2,098	25	2,123	156,677	+ 35	2,088	41	2,047
1964	2,031	32	2,063	155,846	- 2	2,065	15	2,050
1965	2,099	36	2,135	155,407	- 1	2,136	10	2,126
1966	2,155	38	2,193	154,096	- 4	2,197	12	2,185
1967 (2)	2,207	51	2,258	159,703	+ 5	2,253	12	2,241
1968	2,299	131	2,430	173,158	+ 37	2,393	4	2,389
1969	2,326	139	2,465	171,714	- 4	2,469	3	2,466
1970	2,460	148	2,608	195,271	+ 65	2,543	3	2,540
1971	2,503	153	2,656	190,622	- 13	2,669	8	2,661
1972	2,636	181	2,817	154,319	- 99	2,916	3	2,913
1973	2,824	392	3,216	196,461	+115	3,101	9	3,092
1974	2,671	289	2,960	200,068 (3)	+ 10	2,950	2	2,948

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(1) These figures and those for subsequent years are on a 50-state basis.

(2) Production and stocks at gas processing plants are included in this and subsequent years.

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change (Table 5a).

SOURCE: U.S. Bureau of Mines, Annual Petroleum Statements

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	2,656	155	2,811	208,833	- 41	2,852	1	2,851
1976	2,925	146	3,072	185,986	- 62	3,134	1	3,133
1977	3,281	250	3,531	250,295	+178	3,353	1	3,352
1978(1)	3,171	173	3,344	216,463	- 93	3,437	3	3,435
1979(1)	3,167	197	3,364	228,729	+ 34	3,330	3	3,327
1980(1)	2,769	139	2,908	205,132	- 64	2,972	3	2,969
1981	2,623	173	2,796	191,541	- 38	2,834	5	2,829
1982	2,616	93	2,709	178,592	- 35	2,744	74	2,671
1983(3)	2,456	174	2,630	140,263	-124	2,754	64	2,690

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(1) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980.

(2) Totals may not add due to independent rounding.

(3) In 1983, DOE changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised stock figures for 1982.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

Section VII
Table 6

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	1,301	149	1,450	47,091	--	1,450	29	1,421
1948	1,329	146	1,475	64,021	+72	1,403	36	1,367
1949	1,177	206	1,383	60,193	-11	1,394	35	1,359
1950	1,180	329	1,509	40,750	-53	1,562	45	1,517
1951	1,302	327	1,629	42,853	+ 3	1,626	80	1,546
1952	1,257	351	1,608	48,706	+16	1,592	76	1,516
1953	1,248	360	1,608	49,370	+ 2	1,606	71	1,535
1954	1,158	354	1,512	52,105	+ 8	1,504	73	1,431
1955	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,183	445	1,628	44,491	+15	1,613	76	1,537
1957	1,176	475	1,651	59,959	+42	1,609	105	1,504
1958	1,025	499	1,524	59,508	- 1	1,525	70	1,455
1959 (1)	973	610	1,583	53,501	-18	1,601	57	1,544
1960	918	637	1,555	44,870	-24	1,579	51	1,528
1961	875	667	1,542	44,869	--	1,542	39	1,503
1962	820	724	1,544	49,996	+14	1,530	35	1,495
1963	765	747	1,512	47,538	- 6	1,518	42	1,476
1964	739	808	1,547	40,403	-20	1,567	52	1,515
1965	746	946	1,692	56,214	+43	1,649	41	1,608
1966	733	1,032	1,765	61,196	+14	1,751	35	1,716
1967	766	1,085	1,851	65,597	+ 5	1,846	60	1,786
1968	765	1,120	1,885	67,359	+ 5	1,880	54	1,826
1969	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	765	1,583	2,348	59,681	+16	2,332	36	2,296
1972	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	988	1,853	2,841	53,480	- 5	2,846	23	2,823
1974	1,083	1,587	2,670	59,694 (2)	+17	2,653	14	2,639

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(1) These figures and those for subsequent years are on a 50 state basis.

(2) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change (Table 7a).

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	1,251	1,223	2,474	74,126	- 2	2,476	15	2,461
1976	1,393	1,413	2,806	72,344	- 5	2,811	12	2,799
1977	1,767	1,359	3,126	89,993	+49	3,077	6	3,071
1978(1)	1,681	1,355	3,036	90,194	+ 1	3,037	13	3,024
1979(1)	1,708	1,151	2,859	95,598	+15	2,844	9	2,835
1980(1)	1,660	920	2,580	90,344	-14	2,594	33	2,561
1981	1,369	800	2,169	77,992	-37	2,206	118	2,088
1982	1,118	776	1,894	66,200	-32	1,926	209	1,716
1983(2)	852	699	1,551	48,504	-55	1,606	185	1,421

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(1) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980.

(2) In 1983, the Department of Energy changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised figure for 1982.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

DELIVERIES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	Residual	Total	Total Fuel Oil Demand, All Sectors
1947	39	167	206	2,238
1948	41	155	196	2,298
1949	34	219	253	2,261
1950	36	255	291	2,599
1951	26	193	219	2,771
1952	23	192	215	2,819
1953	19	234	253	2,872
1954	17	194	211	2,873
1955	16	208	224	3,118
1956	15	202	217	3,220
1957	15	210	225	3,192
1958	15	211	226	3,245
1959(1)	14	225	239	3,352
1960(2)	13	233	246	3,400
1961	11	241	252	3,405
1962	11	242	253	3,502
1963	11	251	262	3,523
1964	10	267	277	3,565
1965	10	315	235	3,734
1966	10	378	388	3,901
1967	8	434	442(3)	4,027
1968	23(4)	505	528	3,215
1969	33	679	712	4,444
1970	68	856	924	4,744
1971	97	1,019	1,116	4,957
1972	187(5)	1,189	1,376	5,442
1973	214(5)	1,396	1,610	5,915
1974	232(5)	1,302	1,534	5,587
1975	174(5)	1,246	1,420	5,312
1976	165(5)	1,351	1,510	5,961
1977	210(5)	1,560	1,770	6,441
1978	211(5)	1,461	1,672	6,467
1979	128	1,333	1,461	6,162

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(1) These data include Alaska but not Hawaii.
(2) These data and those for subsequent years are on a 50-state basis.
(3) Electric public utility power plants only.
(4) These data and those for subsequent years include distillate sales for gas turbine plants.
(5) Includes kerosine jet fuel; 1972—24,000 bbls. per day; 1973—17,000 bbls. per day; 1974—14,000 bbls. per day; 1975--9,000 bbls. per day; 1976--11,600 bbls. per day; 1977—17,419 bbls. per day; 1978—12,342 bbls. per day.

Source: Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals
1979 -- Energy Information Administration, Petroleum Supply Annual.

DELIVERIES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	Residual	Total	Total Fuel Oil Demand, All Sectors
1980	87	1,066	1,153	5,531
1981	50	892	942	4,916
1982	33	623	656	4,387
1983	32	560	592	4,111

Source: U.S. Energy Information Administration, Petroleum Supply Annual

Section VII
Table 8

MOTOR GASOLINE CONSUMPTION IN THE UNITED STATES
(Thousand Gallons)

STATE	1962(1)	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,603	90,489	92,064	111,594	123,995
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	867,887	933,764	998,011	1,094,225	1,201,122
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,684	9,363,091	9,995,752	10,307,287
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,840	1,109,271	1,187,015	1,295,516	1,356,428
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316
Dist. of Col.	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798
Georgia	1,404,674	1,465,671	1,563,737	1,655.099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556
Hawaii	151,197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	363,990	379,479	400,735	421,403	451,315	468,321
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,652	4,408,829	4,596,788	4,836,883	5,048,307
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,485
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,261,616	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,696	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,366,279	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,547,187	4,748,355
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190
Montana	309,869	309,609	313,450	327,979	334,344	342,269	361,060	371,950	395,762	425,158	427,048	440,456
Nebraska	633,965	655,102	576,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846
Nevada	184,637	205,360	218,989	233,702	242,024	257,239	264,295	285,519	314,702	333,806	365,954	389,776
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,830	686,811
New York	4,068,568	4,198,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,115	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,953	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,667	4,458,007	4,768,816	4,836,463
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,074,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,698	420,859	439,796	464,493	472,646
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,328,563	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,582	233,411	246,667	256,601	279,080	293,571
Total	62,531,373	64,779,104	67,663,848	70,337,126	73,686,872	76,139,326	80,867,012	85,415,920	89,405,266	93,907,352	100,068,575	104,579,479

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(1) Prior to 1962 data not available on a comparable basis.

Source: U.S. Energy Information Administraton, Natural Gas Annuals

Note: The gallonage shown above represents consumption of motor gasoline, excluding sales to U.S. Government and sales of aviation gasoline.

MOTOR GASOLINE SALES IN THE UNITED STATES
(Thousand Gallons)

STATE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	1,862,659	1,918,203	2,028,878	2,098,979	2,181,179	2,093,703	1,962,046	1,849,225	1,840,396	1,861,406
Alaska	163,070	193,725	214,140	204,006	209,118	219,472	201,373	212,804	235,112	221,229
Arizona	1,147,782	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722	1,344,438	1,341,613	1,410,904
Arkansas	1,152,195	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800	1,137,998	1,123,466	1,128,357
California	9,887,993	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050	10,842,862	10,660,534	11,032,662
Colorado	1,301,967	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288	1,506,429	1,513,235	1,560,776
Connecticut	1,327,308	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582	1,296,048	1,284,966	1,308,077
Delaware	296,489	303,545	315,973	314,070	313,277	306,489	293,851	290,581	282,463	308,772
Dist. of Col.	240,457	243,215	229,031	225,434	221,831	214,782	171,451	171,082	170,518	168,019
Florida	4,205,193	4,345,632	4,507,541	4,668,677	4,929,713	4,905,642	4,810,520	4,845,057	4,900,197	5,078,234
Georgia	2,739,639	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923	2,809,969	2,818,366	2,904,369
Hawaii	277,849	289,772	303,836	320,804	332,512	332,490	354,529	347,848	349,098	355,332
Idaho	457,785	482,462	520,640	530,225	563,708	538,740	488,333	471,054	456,063	459,377
Illinois	5,024,751	5,127,189	5,327,390	5,423,741	5,565,912	5,186,151	4,816,780	4,598,012	4,522,361	4,609,320
Indiana	2,739,043	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146	2,616,773	2,431,388	2,479,277
Iowa	1,647,054	1,766,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192	1,474,522	1,420,817	1,394,722
Kansas	1,329,122	1,378,773	1,462,585	1,433,106	1,504,662	1,406,812	1,310,568	1,268,609	1,236,159	1,240,248
Kentucky	1,676,588	1,743,523	1,840,476	1,889,170	1,941,387	1,868,006	1,755,397	1,729,135	1,721,620	1,734,296
Louisiana	1,756,343	1,830,011	1,986,865	2,076,160	2,157,919	2,158,327	2,081,328	2,103,397	2,145,094	2,151,035
Maine	520,051	536,015	567,427	575,775	586,048	541,664	517,014	497,749	505,620	519,891
Maryland	1,789,440	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209	1,919,423	1,888,873	1,892,434
Massachusetts	2,296,921	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675	2,249,956	2,235,986	2,266,746
Michigan	4,565,132	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036	4,014,363	3,795,814	3,680,884
Minnesota	2,034,085	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270	1,984,982	1,931,205	1,985,492
Mississippi	1,195,373	1,192,595	1,254,446	1,322,865	1,332,417	1,292,209	1,194,845	1,208,384	1,151,872	1,158,134
Missouri	2,628,598	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627	2,528,616	2,494,373	2,536,042
Montana	448,019	461,411	493,245	511,714	531,445	499,397	459,950	445,641	452,371	459,851
Nebraska	868,296	880,948	939,870	939,626	958,879	907,383	816,426	798,518	792,579	776,930
Nevada	382,610	409,496	434,031	464,832	509,705	500,916	500,286	508,535	490,270	489,835
New Hampshire	390,559	401,243	426,860	444,560	456,391	433,556	411,214	398,692	393,276	405,203
New Jersey	3,174,698	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992	3,150,798	3,172,525	3,371,871
New Mexico	683,532	708,455	760,885	779,366	821,722	793,452	746,655	742,486	744,599	740,916
New York	5,997,859	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549	5,674,946	5,617,353	5,491,074
North Carolina	2,820,286	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274	2,874,700	2,842,968	2,911,221
North Dakota	411,328	433,296	452,728	452,771	467,847	443,692	407,250	408,449	403,067	390,085
Ohio	5,006,097	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574	4,766,658	4,561,134	4,634,793
Oklahoma	1,675,497	1,743,196	1,832,255	1,881,335	1,984,458	1,897,821	1,845,259	1,922,403	1,929,207	1,907,622
Oregon	1,187,671	1,224,276	1,310,983	1,369,886	1,441,886	1,385,047	1,330,612	1,271,001	1,211,110	1,222,903
Pennsylvania	4,813,878	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328	4,474,475	4,384,130	4,370,547
Rhode Island	371,740	395,532	384,525	405,832	412,404	397,229	381,826	368,524	360,833	365,634
South Carolina	1,456,658	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787	1,529,196	1,515,808	1,539,188
South Dakota	456,444	501,055	474,182	489,910	497,196	458,549	423,517	403,635	393,021	389,287
Tennessee	2,181,836	2,367,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939	2,388,466	2,355,395	2,331,655
Texas	7,099,280	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499	8,149,252	8,201,687	8,393,680
Utah	616,419	646,942	680,027	714,148	761,968	730,529	734,992	768,450	734,020	725,317
Vermont	235,325	240,270	255,094	260,155	269,204	252,404	238,842	234,114	236,905	242,056
Virginia	2,441,443	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199	2,530,673	2,493,638	2,554,245
Washington	1,666,944	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513	1,872,364	1,851,127	1,919,152
West Virginia	766,439	813,024	872,009	900,930	909,773	888,849	845,242	804,632	810,848	801,736
Wisconsin	2,145,544	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363	2,067,800	1,982,060	2,011,843
Wyoming	294,460	319,042	343,229	361,399	388,681	381,674	373,723	375,068	359,425	338,752
Total	101,855,749	104,516,610	109,873,935	113,102,038	116,780,787	112,678,296	106,378,366	104,248,792	102,747,065	104,231,431

Source: Federal Highway Administration.

Note: The gallonage shown above represents consumption of motor gasoline and includes sales to U.S. Government and sales of aviation gasoline. Excludes exports and dealer transfers.

U.S. SALES OF DISTILLATE FUEL OILS, BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,326	4,346	4,891	5,370
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	2,618	2,616
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018	2,100	2,774
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433	2,175	2,052
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884	26,357	26,697
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238	3,099	4,225
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885	22,176	23,230
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413	2,487	2,723
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402	2,719	2,914
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150	8,190	8,971
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887	4,731	5,117
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--	876
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938	3,734	4,055
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869	43,008	42,490
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099	24,500	25,596
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883	11,360	11,141
Kansas	2,881	4,094	3,185	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477	5,060	4,751
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978	5,800	4,833
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756	11,249	10,694
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,426	6,434	7,108	7,456
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,086	12,495	13,101
Massachusetts	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452	47,781	51,022
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385	28,387	30,464
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468	15,079	16,241
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744	2,318	2,364
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274	12,700	12,830
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642	4,474	4,877
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527	3,929	4,183
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656	2,051	2,428
New Hampshire	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951	4,049	4,484
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923	45,634	45,542
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492	2,302	3,065
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779	79,499	81,677
North Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,406	11,544	13,353
North Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976	3,632	3,775
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	24,221	24,850	23,836
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754	2,603	2,631
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,939	10,981	10,862	10,132	9,380	10,456	10,920
Pennsylvania	19,916	22,198	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322	44,029	45,668
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250	7,167	8,093
South Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266	4,454	5,203
South Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800	2,882	2,964
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226	5,037	5,268
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077	26,541	24,315
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,256	4,655	3,478	3,841
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796	2,399	2,939
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300	12,984	14,184
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915	16,867	18,045
West Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913	2,154	2,462
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,099	17,149	20,136	20,316	21,711
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697	3,539	3,258
U.S. Total	298,014	341,973	329,196	395,306	448,908	479,210	488,844	526,245	581,127	615,775	617,275	653,559	658,992	683,325

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

Section VII
Table 9a

U.S. SALES OF DISTILLATE FUEL OILS BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510	8,849	12,093
Alaska	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082	6,352	6,207
Arizona	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898	5,242	8,786
Arkansas	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474	5,489	9,412
California	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188	47,357	45,797
Colorado	4,441	4,148	4,580	4,074	4,002	4,670	4,811	5,574	5,490	5,211	6,242	6,784
Connecticut	23,199	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147	24,100	24,735
Delaware	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,097	4,309	4,345	4,298
Dist. of Col.	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934	3,834	3,314
Florida	9,369	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,698	16,525	19,488
Georgia	5,269	6,218	6,969	6,977	8,666	10,059	11,558	12,013	12,540	12,784	14,638	16,491
Hawaii	1,666	1,641	1,375	1,769	1,613	1,369	1,190	1,381	1,573	1,695	1,706	1,622
Idaho	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597	5,702	5,866
Illinois	42,255	41,361	41,421	41,580	41,702	39,831	39,846	42,795	44,498	44,517	49,467	55,276
Indiana	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363	30,670	34,233
Iowa	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,681	14,242	14,975
Kansas	5,187	5,242	4,612	5,487	5,405	6,310	6,009	6,660	6,488	7,559	8,401	9,166
Kentucky	4,426	5,822	5,532	5,697	5,659	7,068	6,901	7,304	7,865	8,209	7,776	9,470
Louisiana	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,796	13,384	17,644
Maine	8,307	8,645	9,487	8,792	9,424	9,038	10,110	10,647	11,417	11,837	12,120	12,744
Maryland	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860	20,000	21,435
Massachusetts	52,266	53,448	51,664	49,966	56,694	51,262	54,943	56,315	58,399	59,211	61,609	63,616
Michigan	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,601	37,473	38,108	41,684	48,660
Minnesota	15,967	16,776	16,629	16,739	19,227	21,195	20,083	22,233	22,121	22,390	23,777	25,979
Mississippi	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987	7,215	9,413
Missouri	12,858	13,412	13,939	13,884	14,077	13,908	13,924	17,067	16,473	16,218	16,350	18,101
Montana	5,248	5,522	5,400	5,684	5,041	5,802	3,459	4,119	4,669	4,823	5,709	6,121
Nebraska	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459	7,604	9,002
Nevada	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832	3,151	2,924
New Hampshire	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676	8,085	8,303
New Jersey	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447	64,769	72,659
New Mexico	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,183	4,547	5,405	5,395	6,569
New York	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122	113,833	122,075
North Carolina	13,366	15,617	16,000	16,249	17,428	20,869	20,577	19,944	20,407	22,553	21,609	23,030
North Dakota	3,693	4,472	4,584	4,529	5,252	6,008	6,036	6,156	5,959	4,973	4,915	5,135
Ohio	23,433	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435	35,090	41,414
Oklahoma	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573	5,473	7,828
Oregon	11,061	11,777	12,828	13,855	13,295	13,837	13,083	13,298	13,646	12,895	14,162	15,467
Pennsylvania	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544	63,221	70,757
Rhode Island	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623	9,070	9,176
South Carolina	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469	9,114	9,722
South Dakota	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372	4,600	4,469
Tennessee	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945	11,609	14,218
Texas	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398	34,884	46,515
Utah	3,085	3,607	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104	6,515	6,310
Vermont	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732	5,472	5,729
Virginia	14,631	15,843	16,945	16,542	18,941	21,304	21,796	22,286	23,218	24,624	24,441	25,020
Washington	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188	18,621	19,090
West Virginia	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913	4,658	5,532
Wisconsin	22,153	23,399	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827	26,520	26,781
Wyoming	3,250	3,838	3,816	3,653	3,743	3,038	4,023	5,153	5,249	5,055	5,724	5,419
U.S. Total	690,874	729,095	748,124	747,551	786,891	809,713	829,200	873,100	900,300	927,250	971,320	1,074,870

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. DELIVERIES OF DISTILLATE FUELS OILS BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976(1)	1977(1)	1978(1)	1979	1980	1981	1982	1983
Alabama	13,988	14,761	14,488	18,032	19,624	20,194	15,996	19,419	17,939	15,436	16,550
Alaska	6,384	6,591	6,946	9,517	10,187	10,571	5,808	6,781	6,548	6,335	6,840
Arizona	15,118	11,197	11,481	10,181	13,727	13,829	13,194	11,330	9,741	8,102	8,201
Arkansas	9,949	10,316	9,392	10,228	12,451	13,014	16,163	14,209	13,116	13,336	13,764
California	51,165	42,991	43,129	45,545	54,009	60,126	68,104	61,338	67,494	67,337	67,897
Colorado	7,737	8,712	8,590	9,408	9,668	10,023	10,451	9,665	8,634	9,132	9,717
Connecticut	25,181	22,677	21,844	23,706	23,249	23,011	27,916	22,499	19,745	20,509	20,286
Delaware	4,382	4,310	4,487	4,615	5,096	4,840	3,685	3,702	3,133	2,753	2,819
Dist. of Col.	3,462	3,497	3,112	3,781	4,005	6,204	4,364	3,436	2,125	2,215	2,537
Florida	22,662	22,599	23,083	24,268	28,236	28,920	28,084	28,520	29,816	22,503	28,792
Georgia	20,478	20,835	16,922	22,480	22,559	19,641	18,692	19,397	19,388	18,387	19,395
Hawaii	1,839	1,897	2,512	2,370	3,502	3,246	6,451	5,915	6,043	4,570	4,762
Idaho	6,297	6,876	7,378	7,346	7,983	8,362	6,504	4,879	4,775	4,496	4,428
Illinois	54,288	53,950	52,103	58,877	58,459	61,760	48,584	36,086	34,427	32,521	31,020
Indiana	34,353	34,516	33,314	36,193	38,044	39,278	35,653	30,488	28,961	28,913	28,023
Iowa	15,467	14,751	14,249	15,257	16,012	15,687	20,595	15,793	14,374	16,212	15,957
Kansas	10,330	11,080	11,328	11,986	12,484	14,317	18,960	13,923	13,239	13,817	13,336
Kentucky	10,457	10,176	10,760	13,566	16,845	18,809	20,608	22,598	18,217	17,507	17,350
Louisiana	24,677	24,766	22,139	23,324	32,251	33,185	37,224	32,804	37,964	30,858	32,094
Maine	12,147	11,659	11,331	13,407	14,476	13,373	11,218	10,627	9,266	9,189	8,994
Maryland	22,591	22,094	21,712	20,571	21,748	21,341	23,971	22,417	18,365	16,198	16,419
Massachusetts	62,970	58,934	57,195	61,666	59,564	57,446	42,347	37,413	32,155	32,263	31,308
Michigan	47,146	44,204	41,747	43,826	44,835	45,461	30,892	27,841	26,657	22,819	22,691
Minnesota	26,768	24,185	23,974	27,513	26,645	27,807	26,069	21,826	18,714	20,880	20,428
Mississippi	13,045	14,372	12,188	13,713	14,584	16,306	12,277	12,905	13,487	11,849	12,465
Missouri	18,781	17,424	17,106	19,555	20,588	23,027	22,780	18,150	18,003	20,738	20,308
Montana	6,924	7,646	7,459	8,383	8,141	8,114	7,774	6,626	6,486	5,814	5,949
Nebraska	9,262	8,684	8,363	10,178	10,643	12,127	12,601	9,145	8,233	9,176	8,915
Nevada	3,304	2,561	2,535	2,715	3,055	3,822	3,189	4,022	3,488	3,518	3,579
New Hampshire	8,208	7,551	7,047	8,758	8,231	8,292	5,741	5,845	5,313	5,084	4,937
New Jersey	74,564	67,426	58,937	61,787	60.052	56,592	50,447	52,719	50,973	45,546	44,813
New Mexico	7,948	7,635	8,080	8,022	9,337	9,633	10,431	10,222	12,526	7,954	8,571
New York	120,200	108,677	104,646	115,237	114,446	114,344	88,449	72,515	64,263	62,608	60,315
North Carolina	24,898	22,246	20,965	23,881	27,107	24,749	29,404	23,820	21,228	20,184	20,890
North Dakota	4,626	4,303	4,362	4,061	4,069	4,194	8,268	8,037	7,708	7,209	7,020
Ohio	41,415	40,831	42,160	51,519	52,501	55,346	44,952	48,397	44,959	40,250	39,232
Oklahoma	8,814	8,744	9,696	11,775	12,775	14,477	14,119	12,051	15,519	14,557	14,228
Oregon	16,070	14,324	13,240	14,062	16,794	16,671	19,281	17,051	16,492	15,020	14,977
Pennsylvania	70,793	71,508	66,341	74,691	77,861	73,311	76,651	68,066	59,977	53,065	52,729
Rhode Island	8,633	8,038	7,787	8,478	8,199	7,679	7,042	5,046	3,993	3,984	3,868
South Carolina	10,956	9,638	8,132	10,218	12,972	11,023	11,894	10,730	9,841	9,462	9,775
South Dakota	4,140	3,586	3,821	3,311	3,042	3,670	6,166	4,842	4,406	5,131	4,969
Tennessee	15,310	15,815	17,657	21,469	24,071	25,825	23,504	18,818	19,512	18,764	19,255
Texas	57,567	58,766	55,262	58,655	74,678	81,171	96,359	95,939	90,359	90,180	92,368
Utah	7,792	8,624	8,962	8,367	8,631	9,023	8,150	7,412	7,115	6,425	6,756
Vermont	6,001	4,981	4,566	5,394	5,274	5,135	5,389	4,076	3,828	2,707	2,967
Virginia	26,561	24,938	24,534	25,339	28,332	27,161	33,726	24,406	23,638	21,943	21,604
Washington	20,091	16,345	16,606	18,405	19,800	20,765	21,776	18,709	17,695	18,200	18,122
West Virginia	5,992	5,622	6,478	6,807	9,019	8,796	10,904	10,340	9,450	7,659	7,535
Wisconsin	27,264	26,330	26,035	30,366	31,107	32,940	31,504	22,539	20,726	20,537	20,282
Wyoming	6,138	6,897	7,565	8,120	9,211	10,423	10,063	11,375	12,452	11,015	11,889
U.S. Total	1,135,063	1,081,086	1,043,746	1,150,929	1,230,179	1,257,061	1,214,374	1,086,709	1,032,476	974,864	981,927

Source: U.S. Department of Energy, Sales of Fuel Oil and Kerosine and Petroleum Supply Annuals

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils	Industrial Use	Oil Company Fuel	Electric Utility Company	Railroads	Vessel Bunkering	Military Use	Diesel	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	34,980	12,087	488,844
1954	320,117	41,589	7,699	6,070	77,389	15,563	8,752	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	48,870	9,908	615,775
1957	377,044	43,523	10,419	5,296	88,315	20,420	12,737	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	65,186	9,054	653,559
1959 (2)	415,521	33,380	8,642	5,005	87,802	19,250	11,394	70,527	7,471	658,992
1960 (3)	438,010	34,271	8,347	4,742	86,490	18,730	10,793	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,803	15,836	13,041	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,612	89,104	16,642	16,303	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	(1)	147,831	829,200
1968	510,682	45,795	9,975	8,509 (4)	84,030	18,235	12,593	171,773	11,508	873,199
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	276,961	11,876	1,135,063
1974	493,223	64,036	13,805	84,661	102,949	24,757	17,748	269,776	10,131	1,081,086

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(1) Data not available
(2) Includes Alaska
(3) Includes Alaska and Hawaii
(4) Includes gas turbine plants in 1968 and subsequent years

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils[5]	Industrial Use[6]	Oil Company Fuel	Electric Utility Company[7]	Railroads	Vessels Bunkering	Military Use[8]	Diesel	All Other	Total
1975	488,388	63,993	13,633	63,420	92,191	26,138	18,004	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	360,799	14,059	1,257,061
1979	454,955[9]	99,583	22,043	46,579	103,493	41,725	18,570	392,614	34,812	1,214,374
1980	393,112	86,089	24,205	31,812	102,022	35,201	19,138	375,136	19,994	1,086,709
1981	345,728	80,216	29,185	18,192	100,482	41,025	17,763	378,853	21,032	1,032,476
1982	324,912	71,340	29,482	12,134	93,150	33,885	15,201	375,124	19,639	974,864
1983	311,239	69,332	29,957	11,744	91,681	33,785	15,925	399,013	19,201	981,927

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(5) Includes range oil

(6) Excludes oil company use

(7) Includes kerosine-type jet fuel: 1976 — 11,600 bbls. per day; 1977 — 18,770 bbls. per day; 1978 -- 12,342 bbls. per day.

(8) Includes imports by military

(9) Beginning in 1979, heating oils is no longer a separate category. The figure is derived by adding residential, commercial and farming.

Source: 1975-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178	4,202
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	574	695
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34	95
Arkansas	2,253	2,080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346	474
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287	78,774
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603	1,790
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814	14,450
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063	6,081
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450	2,387
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,345	28,909	32,236	34,910	36,228	37,470	33,310	28,978
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824	6,413
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--	5,613
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185	201
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689	25,893
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035	12,885
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088	1,021
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943	2,249
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570	321
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764	8,599
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433	5,742
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385	16,490
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532	38,942
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498	11,242
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399	6,393
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435	339
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129	3,026
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006	2,002
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218	378
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146	202
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984	2,324
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,339	46,154	44,587	45,136	36,841	41,422	42,971
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107	173
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784	76,586
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908	4,537
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597	663
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,206	18,530	9,721	11,028	11,382
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319	1,396
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121	5,453
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660	42,731
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11,127	10,350	9,502
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,985	4,291	4,389	4,383	4,660	4,886	4,634
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48	60
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284	184
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275	22,102
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872	5,562
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275	498
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703	17,448
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162	9,179
West Virginia	828	1,171	1,366	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620	1,451
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167	4,275
Wyoming	2,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842	1,738
U.S. Total	520,529	506,497	494,933	554,208	563,338	556,273	564,729	520,714	556,983	561,538	543,950	531,367	554,352	550,536

Source: Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual.

Section VII
Table 11a

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	3,555	2,749	3,184	2,274	2,459	2,752	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,549	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	10,042	11,148	10,748	10,656
Florida	32,600	37,044	36,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	2,638	2,131	2,335	2,400	3,252	2,623	3,371	3,379	3,640	3,615	2,904	2,552
Montana	2,533	3,049	2,836	2,356	1,195	1,371	1,189	1,495	1,524	1,249	1,236	1,485
Nebraska	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	311	323	209	146	655	363	111	90	95	215	466	621
New York	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	873	967	797	825	795	637	776	866	683	744	637	1,355
Oregon	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	52,489	60,389	59,973	58,490
Rhode Island	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	171	105	275	287	276	331	465	334	786	596	365	523
Texas	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	540	629	607	413	937	1,048	504	547	677	903	898	954
Virginia	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S. Total	542,986	548,433	538,522	556,632	574,118	613,972	639,539	669,484	722,629	804,287	838,044	925,647

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. DELIVERIES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	6,151	10,496	13,220	14,684	16,272	16,443	11,294	8,820	4,686	6,350	5,118
Alaska	1,051	1,098	1,104	1,342	1,738	2,595	321	397	249	301	337
Arizona	4,288	6,943	5,182	4,108	7,478	3,413	5,032	1,046	227	297	88
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747	11,813	5,472	2,449	1,803	1,283
California	121,059	105,314	113,782	136,080	180,436	140,595	160,428	162,365	126,463	81,392	58,706
Colorado	2,317	3,177	3,591	3,903	3,502	4,091	1,041	1,373	165	14	13
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325	27,241	28,209	21,951	21,349	22,311
Delaware	13,117	12,632	10,239	11,332	11,524	11,376	11,073	12,889	8,671	6,289	5,485
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235	767	444	389	1,527	1,064
Florida	82,873	75,440	78,885	92,171	85,323	91,175	98,722	96,955	90,347	63,079	54,415
Georgia	13,888	13,454	9,831	12,257	12,666	11,988	13,368	8,512	6,251	5,562	4,307
Hawaii	11,580	11,219	10,776	11,778	12,512	12,796	12,641	13,251	13,311	13,323	12,228
Idaho	243	597	703	803	697	1,003	580	460	55	223	202
Illinois	28,795	28,521	26,948	23,659	26,598	30,111	26,675	28,023	21,399	15,507	11,793
Indiana	15,536	16,078	14,052	19,188	19,447	19,004	16,271	14,335	7,638	4,856	4,231
Iowa	679	628	405	588	764	599	836	360	100	321	291
Kansas	2,847	2,660	5,945	6,416	6,307	6,686	4,830	1,046	697	993	760
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506	1,151	966	1,150	1,197	1,030
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252	63,359	72,686	55,687	48,260	38,254
Maine	19,860	15,272	10,064	13,116	12,234	11,415	10,738	8,413	10,090	15,803	12,670
Maryland	42,534	39,310	25,538	27,330	26,122	28,217	23,851	16,090	12,396	11,898	9,535
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208	58,958	52,948	49,673	42,762	34,810
Michigan	14,560	14,876	18,739	20,656	21,345	24,871	18,547	11,934	8,947	4,285	3,192
Minnesota	7,069	5,883	4,322	5,796	4,414	4,576	2,695	3,044	1,460	1,732	1,594
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308	24,740	17,459	9,725	5,570	4,326
Missouri	2,959	2,375	2,992	2,948	3,647	3,620	3,196	1,370	656	856	818
Montana	1,705	2,290	2,186	2,549	2,414	2,665	4,188	3,012	2,519	1,668	1,512
Nebraska	639	1,045	1,077	1,650	1,189	1,410	622	78	57	198	170
Nevada	612	690	1,456	649	1,455	2,756	1,541	2,503	250	119	39
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408	6,109	5,437	4,835	4,106	3,568
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726	60,980	53,167	38,279	34,241	28,095
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081	596	1,305	856	716	529
New York	169,669	155,327	146,837	157,812	157,773	153,037	130,344	112,872	97,868	90,073	79,354
North Carolina	15,393	13,819	7,786	12,667	14,499	12,814	11,889	9,114	5,677	5,971	4,372
North Dakota	898	1,190	1,101	1,045	889	950	801	701	1,130	1,171	954
Ohio	6,866	8,330	9,957	11,041	14,491	13,431	9,674	6,282	5,920	2,488	2,090
Oklahoma	1,629	1,201	752	683	661	987	820	719	745	700	603
Oregon	7,439	6,650	4,484	3,606	3,395	5,087	5,526	4,562	6,407	10,927	7,726
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366	45,365	34,777	30,340	20,789	24,008
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088	2,387	2,230	2,227	1,791	1,203
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579	11,249	7,127	5,142	2,965	2,255
South Dakota	234	137	153	299	260	213	166	115	161	51	44
Tennessee	650	883	734	3,085	3,404	2,529	2,276	1,472	1,239	748	647
Texas	29,208	36,891	41,072	44,195	52,178	63,634	73,206	73,189	68,671	62,069	50,898
Utah	3,649	4,295	4,698	4,917	4,565	4,441	2,374	2,584	1,064	886	802
Vermont	876	535	818	1,285	1,136	1,073	337	471	351	372	271
Virginia	46,123	43,274	40,015	40,108	41,171	37,371	34,020	24,704	13,072	9,591	7,328
Washington	10,986	10,365	8,627	7,675	9,683	12,647	13,893	17,332	16,505	14,029	8,791
West Virginia	1,448	1,709	1,847	4,146	4,039	3,082	1,982	1,465	1,001	1,443	1,050
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613	1,915	1,751	871	2,212	1,954
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090	2,182	1,630	2,009	1,634	1,481
U.S. Total	1,030,177	963,216	898,572	1,025,148	1,120,927	1,103,233	1,034,610	937,466	762,028	626,510	518,604

Source: 1973-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

Section VII
Table 12

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils	Military Use	Miscel-laneous Uses	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959(1)	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960(2)	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632

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(1) Includes Alaska
(2) Includes Hawaii

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(1)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(3)	Military Use(2)	Miscel-laneous Uses	All Uses
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	63,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	838,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233
1979	190,543	486,636	245	51,062	198,759	82,729(3)	7,736	16,900	1,034,610
1980	213,131	390,105	665	59,519	163,564	98,034(3)	8,066	4,382	937,466
1981	188,632	325,486	178	51,870	117,024	67,035(3)	7,008	4,795	762,030
1982	152,586	227,419	170	45,319	122,619	65,781(3)	7,829	4,784	626,510
1983	136,290	204,238	140	32,820	89,573	46,743(3)	5,411	3,389	518,604

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(1) Beginning with 1967, represented use by electric public-utility plants only.
(2) Includes imports by military.
(3) Beginning in 1979, heating oil has been reclassified commercial and is a part of the total called "heating and industrial."

Source: 1965-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL--NAPHTHA TYPE
(Daily Averages in Thousands of Barrels)

Year	Supply				Demand			
	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(2)	Exports	Domestic Demand(2)
1965(1)	226	44	270	8,338	--	270	2	268
1966	245	35	280	7,235	-3	283	4	279
1967	300	15	315	9,037	+5	310	5	305
1968	332	19	351	8,904	--	351	5	346
1969	287	14	301	8,556	-1	302	5	297
1970	320	20	250	6,621	-5	255	6	249
1971	234	30	264	6,990	+1	263	3	260
1972	209	33	242	6,147	-2	244	2	242
1973	181	36	217	5,599	-2	219	2	217
1974	195	27	222	5,529	--	222	--	222
1975	180	28	208	5,222	-1	209	--	209
1976	187	15	202	6,495	+3	199	--	199
1977	186	21	207	6,285	-1	208	--	208
1978	179	19	198	5,958	-1	199	--	199
1979	176	22	198	5,599	-1	200	--	200
1980	188	31	219	6,308	+2	217	--	217
1981	193	7	200	7,054	+2	198	1	198
1982	201	5	206	5,667	- 4	210	1	209
1983	205	1	206	6,265	-2	208	1	207

(1) Data prior to 1965 ar not available on a comparable basis.
(2) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statement.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL -- KEROSINE TYPE
(Daily Averages in Thousands of Barrels)

Year	Supply			Stocks as of Dec. 31 (thousands of barrels)	Demand			
	Production	Imports	New Supply		Change in Stocks	Total Demand	Exports	Domestic Demand
1965(1)	298	37	335	10,361	—	335	1	334
1966	345	52	397	13,139	+ 5	392	1	391
1967	448	74	522	13,174	+ 3	519	1	518
1968	529	86	615	15,373	+ 6	609	--	609
1969	594	111	705	19,517	+11	694	--	694
1970	597	125	722	29,989	+ 4	718	--	718
1971	601	150	751	20,747	- 1	752	1	751
1972	638	162	800	19,346	- 3	803	--	803
1973	679	176	855	22,945	+10	845	3	842
1974	641	135	776	23,906	+ 3	773	2	771
1975	691	105	796	25,158	+ 3	793	2	791
1976	731	61	792	25,590	+ 1	791	2	789
1977	788	53	841	28,263	+ 8	833	2	831
1978	791	67	858	27,707	- 1	859	1	858
1979	835	56	891	32,921	+14	877	1	876
1980	811	49	860	35,723	+ 8	852	1	851
1981	775	31	806	34,011	- 5	811	1	809
1982	778	23	801	31,180	- 8	809	5	804
1983	817	29	846	32,346	+ 2	844	5	839

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(1) Data prior to 1965 are not available on a comparable basis.
(2) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

Section VII
Table 15

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	302	—	302	17,722	+ 1	301	20	281
1948	333	—	333	23,941	+17	316	9	307
1949	280	—	280	20,888	- 8	288	7	281
1950	325	—	325	19,723	- 3	328	5	323
1951	372	—	372	27,088	+16	356	19	337
1952	351	—	351	26,529	- 1	352	21	331
1953	337	—	337	28,684	+ 4	333	19	314
1954	335	—	335	27,826	- 2	337	13	324
1955	326	—	326	26,770	- 3	329	9	320
1956	342	—	342	31,420	+12	330	9	321
1957	303	—	303	29,200	- 6	309	14	295
1958	305	—	305	26,040	- 8	313	3	310
1959(1)	305	—	305	26,856	+ 1	304	3	301
1960(2)	374	—	374	31,445	+10	364	2	362
1961	391	8	399	32,433	+ 3	396	1	395
1962	431	18	449	31,725	- 2	451	1	450
1963	454	24	478	34,102	+ 4	474	2	472
1964	463	31	494	36,165	+ 6	488	--	488
1965(3)	259	—	259	24,080	- 9	268	1	267
1966	279	1	280	25,004	+ 2	278	1	277
1967(4)	274	—	274	25,366	--	274	--	274
1968	278	--	278	23,480	- 5	283	2	281
1969	282	3	285	26,780	+ 9	276	1	275
1970	262	4	266	27,848	+ 3	263	--	263
1971	240	1	241	24,438	- 9	250	1	249
1972	219	1	220	19,111	-16	236	--	236
1973	220	2	222	21,022	+ 6	216	--	216
1974	156	5	161	15,269	-15	176	--	176

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(1) These figures and those for subsequent years are on a 50 state basis.
(2) These figures and those through 1964 include commercial jet fuel.
(3) These figures and those for subsequent years exclude kerosine-type jet fuel.
(4) Beginning with 1967 production at refineries and at plants are combined in one total.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 15a

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(1)	Exports	Domestic Demand
1975	152	3	155	15,571	- 4	159	--	159
1976	152	9	161	12,514	- 8	169	--	169
1977	171	19	190	18,056	+15	175	--	175
1978	154	11	165	14,330	-10	175	--	175
1979	183	9	192	15,824	+ 4	189	--	189
1980	137	10	147	11,570	-12	159	--	159
1981	119	7	126	11,042	- 1	127	--	127
1982	115	13	128	10,420	- 2	130	1	129
1983	110	11	121	7,861	- 8	129	1	127

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(1) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

Section VII
Table 16

U.S. SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES

(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports[1]	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	413	--	413	4,295	- 2	415	17	398
1948	464	--	464	6,172	+ 3	461	14	447
1949	494	--	494	7,358	+ 2	491	15	476
1950	578	--	578	8,012	+ 2	576	7	569
1951	651	--	651	8,854	+ 2	649	10	639
1952	695	--	695	8,445	- 1	696	11	685
1953	745	--	745	11,220	+ 8	737	11	726
1954	785	--	785	14,979	+11	774	12	762
1955	890	--	890	14,596	- 1	891	12	879
1956	942	--	942	21,952	+20	922	12	910
1957	954	--	954	23,480	+ 4	950	13	937
1958	965	--	965	24,959	+ 8	957	8	949
1959[2]	1,067	--	1,067	27,407	+ 7	1,060	5	1,055
1960	1,141	5	1,146	32,554	+14	1,132	8	1,124
1961	1,207	5	1,212	43,365	+29	1,183	10	1,173
1962	1,232	6	1,238	36,154	-20	1,258	11	1,247
1963	1,359	7	1,366	37,633	+ 4	1,362	12	1,350
1964	1,446	11	1,457	39,371	+ 5	1,452	15	1,437
1965	1,502	21	1,523	39,542	--	1,523	22	1,501
1966	1,575	29	1,604	43,759	+12	1,592	24	1,568
1967	1,715	27	1,742	69,947	+74	1,668	25	1,643
1968	1,826	32	1,858	81,086	+32	1,826	29	1,797
1969	1,928	35	1,963	65,306	-45	2,008	35	1,973
1970	2,005	52	2,057	74,089	+25	2,032	27	2,005
1971	2,050	106	2,156	100,889	+73	2,083	26	2,057
1972	2,100	174	2,274	91,792	-25	2,299	31	2,268
1973	2,113	239	2,352	106,476	+41	2,311	27	2,284
1974	2,026	211	2,237	120,092	+37	2,200	25	2,175

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(1) Prior to 1960 figures included with gasoline.
(2) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

U.S. TOTAL SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	1,944	185	2,129	132,653	+34	2,095	26	2,069
1976	1,944	197	2,141	124,518	-22	2,163	25	2,138
1977	1,970	203	2,173	144,902	+56	2,117	18	2,099
1978	1,921	139	2,060	140,052	-42	2,101	20	2,081
1979	1,924	230	2,154	125,289	-40	2,187	15	2,172
1980	1,897	216	2,113	137,551	+34	2,079	21	2,058
1981	1,905	254	2,159	150,170	+11(1)	2,148	42	2,106
1982	1,809	247	2,056	105,077	-124	2,180	65	2,115
1983	1,875	205	2,080	116,532	+470	1,610	73	1,537

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(1) The U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 146,145 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	141	—	141	8,624	+ 2	139	41	98
1948	140	—	140	9,843	+ 5	135	37	98
1949	124	—	124	9,219	- 2	126	35	91
1950	141	—	141	7,849	- 4	145	39	106
1951	168	—	168	9,617	+ 4	164	48	116
1952	151	—	151	11,021	+ 3	148	44	104
1953	144	—	144	10,070	- 2	146	35	111
1954	145	—	145	9,702	- 1	146	41	105
1955	153	—	153	8,763	- 3	156	39	117
1956	161	—	161	10,183	+ 3	158	38	120
1957	152	—	152	10,864	+ 1	151	38	113
1958	140	—	140	9,687	- 3	143	35	108
1959(1)	154	—	154	8,950	- 2	156	38	118
1960	162	—	162	9,874	+ 2	160	43	117
1961	162	—	162	12,943	+ 2	160	47	113
1962	168	—	168	13,130	—	168	48	120
1963	173	—	173	14,321	+ 3	170	50	120
1964	174	—	174	14,062	- 1	175	50	125
1965	172	—	172	13,304	- 2	174	45	129
1966	179	—	179	12,682	- 2	181	47	134
1967	178	—	178	14,774	+ 6	172	51	121
1968	180	—	180	14,023	- 2	182	49	133
1969	178	1	179	14,088	—	179	45	134
1970	181	1	182	14,712	+ 2	180	44	136
1971	179	—	179	15,049	+ 1	178	43	135
1972	179	1	180	13,271	- 5	185	41	144
1973	188	6	194	12,186	- 3	197	35	162
1974	194	5	199	16,060	+11	188	33	155

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(1) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 17a

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(1)	Exports	Domestic Demand
1975	154	3	157	14,337	-5	162	25	137
1976	169	4	173	12,274	-5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	-	198	27	171
1979	194	9	203	12,549	+1	202	23	179
1980	178	7	185	13,483	+3	182	23	160
1981	166	8	174	14,304	+2	172	19	153
1982	141	10	151	12,531	-5	156	16	140
1983	147	11	158	12,080	-3	162	16	146

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(1) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 -- U.S. Energy Information Administration, Petroleum Supply Annual.

BASIC PETROLEUM DATA BOOK

SECTION VIII. REFINING

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Section VIII
Table 1

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA AS OF JANUARY 1
(Barrels per day)

Year	United States(1)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000(2)	9,119,034
1948	6,034,252	1,479,350	7,513,602	859,100	47,750	202,850	682,990	9,306,292	650,000(2)	9,956,292
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000(2)	11,109,245
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	11,361,500
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000(2)	12,023,744
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100(2)	12,979,085
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	14,247,520
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	15,391,577
1955	8,386,044	2,566,500	10,952,544	1,134,300	68,400	613,700	2,365,900	15,184,844	1,784,000	16,968,844
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	17,290,336
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	18,676,397
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	(3)	(3)
1959	8,761,446	3,680,500	13,441,946	1,432,800	100,100	1,229,600	3,633,200	19,837,646	(3)	(3)
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	23,830,324
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	(3)	(3)
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	(3)	(3)
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	(3)	(3)
1964	10,305,774	5,828,400	15,134,174	1,801,300	365,200	2,537,000	6,263,500	26,101,174	(3)	(3)
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	33,088,751
1966	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	34,296,439
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	(3)	(3)
1968	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	41,343,204
1969	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	45,194,209
1970	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	48,355,873
1971	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	53,183,528
1972	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	56,845,268
1973	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	59,282,384
1974	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	64,118,536
1975	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	67,551,454

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(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
(2) Estimates for U.S.S.R. only
(3) Data not available

Source: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"

Section VIII
Table 1a

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States(1)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	71,809,515
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	75,180,964
1978	17,047,724	10,592,020	27,352,020	3,506,484	1,467,157	10,176,819	20,728,204	63,352,984	13,938,000	77,290,984
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	78,289,132
1980	17,988,121	10,683,671	28,671,792	3,518,080	1,666,108	10,386,375	20,243,747	64,486,102	15,346,000	79,832,102
1981	18,620,520	10,716,881	29,337,401	3,729,646	1,697,658	10,554,691	20,205,799	65,524,895	16,036,500	81,561,395
1982	17,889,734	10,720,055	28,609,789	3,312,152	1,761,870	10,966,825	19,444,519	64,095,155	16,533,000	80,628,155
1983	16,859,337	9,873,816	26,733,153	3,685,333	1,882,105	10,902,204	17,124,989	60,327,784	16,873,000	77,200,784
1984	16,137,141	9,590,962	25,520,962	3,901,082	1,879,990	10,473,079	16,231,932	58,114,186	17,200,000	75,314,186
1985	15,400,000	9,457,706	24,857,706	4,052,673	2,447,156	10,393,562	15,654,622	57,405,719	17,500,000	74,905,719

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(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity

Source: 1976-1984: United States: U.S. Energy Information Administration, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue
1985: Oil and Gas Journal, "Worldwide Report" issue

Section VIII
Table 2

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416
Canada	975	1,040	1,070	1,135	1,190	1,280	1,395	1,535	1,675	1,765	1,700	1,710
Latin America	3,905	4,030	4,170	4,350	4,590	4,905	5,295	5,445	5,970	5,890	5,515	5,670
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020
South Asia	270	300	370	420	505	525	545	540	590	550	485	550
South East Asia	515	610	635	890	920	1,020	1,265	1,385	1,705	1,560	1,545	1,865
Japan	1,370	1,650	2,005	2,540	2,995	3,470	3,855	3,850	4,430	4,300	4,090	4,305
Australasia	375	415	465	500	510	565	565	575	620	625	635	655
Total Non-Communist World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575
Total World	30,508	32,959	35,230	38,592	41,649	45,515	48,090	50,471	54,926	54,423	52,902	56,691

Source: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

Section VIII
Table 2a

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1977	1978	1979	1980	1981(r)	1982	1983
United States	14,602	14,739	14,648	13,483	12,477	11,774	11,685
Canada	1,805	1,820	1,960	2,085	1,945	1,650	1,570
Latin America	5,715	5,975	6,220	6,460	6,575	6,080	5,825
Western Europe	13,550	13,505	14,160	12,925	11,890	11,480	11,075
Middle East	2,240	2,535	2,365	2,445	2,205	2,245	2,515
Africa	1,130	1,260	1,355	1,460	1,525	1,735	1,920
South Asia	605	645	675	705	795	840	880
South East Asia	2,030	2,330	2,450	2,370	2,480	2,335	2,335
Japan	4,375	4,240	4,340	4,015	3,630	3,360	3,240
Australasia	680	690	700	640	655	625	600
Total Non-Communist World	46,738	47,780	48,873	46,898	44,192	42,125	41,175
Communist Nations	11,930	12,875	13,230	13,320	13,420	13,575	13,675
Total World	58,668	60,655	62,103	60,218	57,590	55,700	54,850

Source: 1977-1983: U.S.-Energy Information Administration
Rest of World - BP Statistical Report of the World Oil Industry, Annual Report

Section VIII
Table 3

U.S. CRUDE OIL REFINING CAPACITY
(AS OF JANUARY 1)

Year	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY		
	Operating	Shutdown	Total	Operating	Operable Shutdown	Inoperable Shutdown(1)
1947	361	38	399	5,336,399	233,083(2)	
1948	352	38	390	5,825,566	208,686(2)	
1949	336	39	375	6,230,505	208,490(2)	
1950	320	47	367	6,222,998	473,302(2)	
1951	325	32	357	6,701,815	261,829(2)	
1952	327	23	350	7,161,366	171,519(2)	
1953	315	28	343	7,481,701	138,019	18,941
1954	308	29	337	7,782,103	201,874	22,920
1955	296	30	326	8,069,154	316,890	34,586
1956	294	24	318	8,380,801	201,835	49,754
1957	298	21	319	8,808,841	262,856	51,977
1958	289	29	318	8,939,907	418,400	49,400
1959	291	22	313	9,450,741	310,705	58,400
1960	290	20	310	9,543,329	299,295	58,800
1961	289	22	311	9,629,685	368,888	11,500
1962	287	24	311	9,812,248	220,799	72,100
1963	287	21	308	9,814,791	196,130	107,400
1964	282	22	304	10,063,164	242,610	79,600
1965	273	27	300	10,161,311	258,540	354,744
1966	267	19	286	10,171,159	222,680	98,900
1967	260	21	281	10,412,447	245,960	101,200
1968	270	21	291	11,172,694	180,710	179,450
1969	264	20	284	11,575,829	126,480	37,200
1970	262	19	281	11,882,393	138,880	53,050
1971	253	26	279	12,658,248	201,980	159,750
1972	250	32	282	13,034,818	257,650	145,000
1973	253	28	281	13,482,909	188,475	132,200
1974	257	27	284	14,220,316	141,220	127,900
1975	262	28	290	14,696,750	263,960	208,100

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(1) Facilities inoperable, needing extensive reconditioning
(2) Not identified separately prior to 1953

Source: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual

Section VIII
Table 3a

U.S. CRUDE OIL REFINING CAPACITY(1)
(AS OF JANUARY 1)

	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY		
Year	Operating	Shutdown(3)	Total	Operating	Operable Shutdown	Inoperable Shutdown(2)
1976	265	22	287	14,867,529	369,092	190,900
1977	273	18	291	15,861,735	536,637	211,500
1978	290	12	302	16,793,724	254,000	182,223
1979	301	10	311	17,147,875	293,010	103,500
1980	311	8	319	17,612,652	376,469	N.A.
1981	315	9	324	18,051,260	569,260	N.A.
1982	254	47	301	16,103,579	1,786,155	N.A.
1983	233	25	258	14,960,647	1,898,690	N.A.
1984	214	33	247	14,837,685	1,299,456	N.A.

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(1) Does not include Puerto Rico refineries
(2) Facilities inoperable, needing extensive reconditioning
(3) Figures beginning with 1980 are for operable shutdown only

Source: U.S. Energy Information Administration, "Petroleum Refineries in the United States and U.S. Territories" Annual
Formerly Titled, "Petroleum Refineries in the United States and Puerto Rico" Annual
1982-1984: U.S. Energy Information Administration, Petroleum Supply Annual

Section VIII
Table 4

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES-ANNUALLY 1964-1977

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6
Ethane (including Ethylene)	(2)	(2)	(2)	(2)	(2)	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0
Shortage(3)	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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(1) Other unfinished oils added to crude oil in computing yield
(2) Included with liquefied gases
(3) Processing Gain(-) or Loss(+)

Source: U.S. Energy Information Administration

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES

	1978	1979	1980	1981	1982	1983
Gasoline	44.1	43.0	44.5	44.8	46.2	47.6
Jet Fuel	6.6	6.9	7.4	7.6	8.1	8.5
Ethane (including Ethylene)	0.1	0.1	-	0.1	-	-
Liquefied Gases	2.3	2.3	2.4	2.4	2.2	2.7
Kerosine	1.0	1.3	1.0	0.9	0.9	0.9
Distillate Fuel Oil	21.4	21.5	19.7	20.5	21.5	20.5
Residual Fuel Oil	11.3	11.5	11.7	10.4	8.8	7.1
Petrochemical Feedstocks	4.1	4.7	5.1	4.7	3.4	3.3
Special Naphthas	0.7	0.6	0.7	0.6	0.4	0.5
Lubricants	1.3	1.3	1.3	1.3	1.2	1.2
Wax	0.1	0.1	0.1	0.1	0.1	0.1
Coke	2.5	2.6	2.7	3.1	3.4	3.5
Asphalt	3.2	3.1	2.9	2.7	2.7	3.1
Road Oil	0.1	-	0.1	-	-	(4)
Still Gas	3.7	3.8	4.0	4.3	4.6	4.6
Miscellaneous	0.9	0.8	0.8	0.7	0.7	0.5
Shortage(2)	-3.4	-3.6	-4.4	-4.0	-4.4	-4.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

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(1) Other unfinished oils added to crude oil in computing yield
(2) Processing Gain (-) or Loss (+)
(3) Totals may not add due to independent rounding
(4) Included in asphalt.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual

Section VIII
Table 5

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT-DOMESTIC vs FOREIGN
(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL	
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1947	648	265	1,312	-	1,889	2	133	-	826	-	4,808	267
1948	640	326	1,418	-	2,154	13	151	-	895	-	5,258	339
1949	486	374	1,404	-	1,973	46	165	-	876	3	4,904	423
1950	545	459	1,594	-	2,053	23	185	-	880	-	5,257	482
1951	641	477	1,796	1	2,398	10	215	-	947	10	5,997	498
1952	618	517	1,845	3	2,463	12	223	-	958	31	6,107	563
1953	601	552	1,949	7	2,601	8	235	-	975	71	6,361	638
1954	549	585	1,953	7	2,594	12	238	-	970	51	6,304	655
1955	530	633	2,119	18	2,832	30	255	-	968	95	6,704	776
1956	559	669	2,224	54	3,010	32	268	(1)	943	178	7,004	933
1957	640	656	2,219	60	2,898	24	273	(1)	900	249	6,930	989
1958	555	644	2,224	71	2,760	43	266	(1)	892	188	6,697	946
1959	574	641	2,340	59	2,922	27	290	(1)	902	238	7,028	965
1960	550	667	2,349	66	2,978	6	285	(1)	891	275	7,053	1,014
1961	573	650	2,347	86	3,020	6	284	(1)	910	308	7,134	1,050
1962	546	668	2,366	97	3,174	4	303	(1)	898	354	7,287	1,123
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195
1965	489	711	2,533	112	3,506	(1)	317	13	957	405	7,802	1,241
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120
1968	596	707	2,744	214(2)	4,116	2	339	27	1,243	324	9,038	1,274
1969	560	749	2,773	240(2)	4,263	(1)	351	35	1,267	391	9,214	1,415
1970	706	584	2,844	310(2)	4,357	-	345	47	1,297	380	9,549	1,321
1971	649	682	2,853	377(2)	4,438	54	360	45	1,239	503	9,539	1,661
1972	347	971	2,850	461(2)	4,741	75	360	37	1,193	661	9,491	2,205
1973	237	1,264	2,774	711(2)	4,656	398	372	44	1,167	808	9,206	3,225
1974	236	1,173	2,654	679(2)	4,317	786	376	44	1,098	770	8,681	3,452
1975	166	1,242	2,637	775(2)	4,078	1,182	380	45	1,086	851	8,347	4,095

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(1) Less than 1,000 barrels daily
(2) Includes some Athabasca hydrocarbons

Source: Bureau of Mines, Annual Petroleum Statements

Section VIII
Table 5a

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT-DOMESTIC vs FOREIGN
(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL	
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1976	170	1,416	2,611	989(2)	3,957	1,760	391	50	1,038	1,034	8,167	5,249
1977	136	1,538	2,386	1,393	3,886	2,460	426	54	1,199	1,124	8,033	6,569
1978	205	1,513	2,392	1,416	3,802	2,636	433	54	1,660	627	8,493	6,246
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379
1980	221	1,233	2,098	1,198	3,645	2,298	394	47	1,903	445	8,261	5,221
1981(3)	205	1,126	2,181	785	3,630	1,951	390	33	1,900	300	8,306	4,195
1982	211	982	2,161	621	3,876	1,522	374	41	1,888	191	8,510	3,357

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(2) Includes some Athabasca hydrocarbons.

(3) Beginning with 1981, figures are for refinery receipts of crude oil

Source: U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual
1981-1982--U.S. Energy Information Administration, Petroleum Supply Annual

NUMBER AND CAPACITY OF U.S. PETROLEUM REFINERIES
As of January 1, 1984

District and State	Number of Operable Refineries: Total	Number of Operable Refineries: Operating	Number of Operable Refineries: Idle[1]	Crude Capacity: Barrels Per Calendar Day: Operating	Crude Capacity: Barrels Per Calendar Day: Idle	Crude Capacity: Barrels Per Stream Day: Operating	Crude Capacity: Barrels Per Stream Day: Idle	Charge Capacity (Barrels Per Stream Day): Vacuum Distillation	Charge Capacity (Barrels Per Stream Day): Thermal Operation	Charge Capacity (Barrels Per Stream Day): Catalytic Cracking (Fresh)	Charge Capacity (Barrels Per Stream Day): Catalytic Cracking (Recycled)	Charge Capacity (Barrels Per Stream Day): Catalytic Reforming	Charge Capacity (Barrels Per Stream Day): Catalytic Hydro-cracking	Charge Capacity (Barrels Per Stream Day): Catalytic Hydro-treating
East Coast	16	14	2	1,298,850	105,200	1,374,500	113,500	775,400	92,500	554,300	88,100	406,700	74,000	1,050,256
Delaware	1	1	0	140,000	0	150,000	0	95,000	44,000	60,000	15,000	56,000	19,000	110,000
Georgia	2	2	0	28,500	0	31,800	0	0	0	0	0	0	0	0
Maryland	1	0	1	0	14,200	0	15,000	14300	0	0	0	0	0	0
New Jersey	5	5	0	414,400	88,000	441,700	95,000	290,100	34,500	229,000	45,000	125,500	0	433,500
New York: East	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	1	0	1	0	3,000	0	3,500	0	0	0	0	0	0	0
Pennsylvania: East	4	4	0	622,100	0	652,000	0	320,000	0	237,300	23,100	216,200	55,000	478,000
Virginia	1	1	0	52,000	0	54,000	0	29,000	14,000	28,000	5,000	9,000	0	26,500
Appalachian #1	10	7	2	110,206	64,200	115,000	66,333	72,900	0	41,000	200	38,920	4,440	85,820
New York: West	1	0	1	0	64,000	0	66,000	25,000	0	23,000	0	11,500	0	47,000
Pennsylvania: West	6	5	1	96,041	200	100,000	333	38,900	0	18,000	200	23,870	0	38,820
West Virginia	2	2	0	14,165	0	15,000	0	9,000	0	0	0	3,550	4,440	0
PAD District 1 Total	25	21	4	1,409,056	189,400	1,489,500	179,833	848,300	92,500	595,300	88,300	445,620	78,440	1,136,076
Appalachian #2	1	1	0	66,000	0	68,000	0	33,000	0	25,000	0	20,000	0	50,000
Ind., Ill., Ky.	29	25	4	2,176,500	152,200	2,298,200	161,000	932,500	203,700	886,700	72,700	648,900	148,500	1,156,300
Illinois	8	8	0	860,500	105,000	911,200	111,000	381,300	97,300	374,000	17,400	310,400	66,500	574,800
Indiana	6	5	1	467,300	1,000	495,600	2,000	247,200	20,000	167,000	8,200	107,500	0	232,500
Kentucky	5	3	2	221,900	25,800	229,800	27,000	103,000	59,000	110,000	0	49,000	0	156,300
Michigan	4	4	0	117,100	0	124,600	0	26,000	0	45,000	1,300	33,000	0	22,700
Ohio: West	5	4	1	449,700	20,400	472,000	21,000	163,000	27,400	160,700	33,800	139,700	82,000	140,500
Tennessee	1	1	0	60,000	0	65,000	0	12,000	0	30,000	12,000	9,300	0	29,500
Minn., Wisc., Daks.	5	5	0	300,973	2,750	311,220	3,000	147,000	49,500	113,500	7,200	73,800	0	212,450
Minnesota	2	2	0	204,143	0	211,220	0	132,000	48,000	78,000	1,000	52,000	0	178,200
North Dakota	2	2	0	57,830	2,750	60,000	3,000	0	1,500	26,000	5,200	12,000	0	16,950
Wisconsin	1	1	0	39,000	0	40,000	0	15,000	0	9,500	1,000	9,800	0	17,300
Okla., Kansas, Mo.	17	16	1	737,177	49,800	781,983	53,000	267,800	95,000	309,400	19,200	195,300	8,190	310,290
Kansas	7	7	0	322,027	0	346,383	0	100,500	49,000	133,400	11,800	86,300	3,190	144,790
Oklahoma	10	9	1	415,150	49,800	435,600	53,000	167,300	46,000	176,000	7,400	109,000	5,000	165,500
PAD District II Total	52	47	5	3,280,650	204,750	3,459,403	217,000	1,380,300	348,200	1,334,600	99,100	938,000	156,690	1,729,040
Texas Inland	19	16	3	569,150	34,650	598,924	36,300	170,475	24,800	225,700	25,900	150,900	0	277,400
Texas Gulf Coast	26	22	4	3,515,824	326,000	3,710,694	349,900	1,737,200	335,000	1,376,700	132,000	967,500	139,000	2,803,450
Louisiana Gulf Coast	21	17	4	2,358,500	180,256	2,451,633	201,967	1,093,500	456,100	823,400	48,300	565,800	168,700	1,253,000
Alabama: Gulf	2	1	1	41,300	65,300	42,000	67,300	30,000	0	0	0	21,000	0	48,000
Louisiana: Gulf	18	15	3	2,022,200	114,956	2,099,633	134,667	820,500	394,100	767,400	46,300	454,800	100,700	1,016,000
Mississippi: Gulf	1	1	0	295,000	0	310,000	0	243,000	62,000	56,000	2,000	90,000	68,000	189,000
North La., Ark.	18	14	4	209,800	87,880	224,015	94,641	121,195	18,500	34,000	7,775	41,700	0	82,000
Alabama: Inland	3	2	1	37,500	11,000	40,500	12,000	21,000	10,000	0	0	6,000	0	20,500
Arkansas	4	4	0	53,000	12,480	54,350	12,900	32,020	0	18,000	775	9,000	0	18,000
Louisiana: Inland	6	5	1	72,500	35,900	78,165	39,300	24,300	0	0	0	20,900	0	32,200
Mississippi: Inland	5	3	2	46,800	28,500	51,000	30,441	43,875	8,500	16,000	7,000	5.800	0	11,300
New Mexico	6	5	1	106,930	2,200	113,192	2,400	21,900	0	26,700	5,850	18,200	0	37,700
PAD District III Total	90	74	16	6,760,204	630,986	7,098,458	685,208	3,144,270	834,400	2,486,500	219,825	1,744,100	307,700	4,453,550
Colorado	3	3	0	71,600	0	92,200	0	37,000	4,000	23,000	1,000	20,400	6,000	28,900
Montana	6	5	1	135,150	13,400	139,950	14,000	41,000	9,200	52,100	6,500	41,100	4,900	121,700
Utah	8	6	2	155,000	14,400	161,500	15,700	47,500	8,500	54,800	10,600	21,350	1,200	38,100
Wyoming	6	5	1	166,855	200	172,000	500	75,400	9,000	61,000	15,700	31,250	0	48,800
PAD District IV Total	23	19	4	528,605	28,000	565,650	30,200	200,900	30,700	190,900	33,800	114,100	12,100	237,500
Alaska	4	4	0	135,500	0	141,553	0	0	0	0	0	12,000	7,500	0
California	43	39	4	2,257,270	266,320	2,402,646	294,100	1,357,200	501,800	589,450	27,550	552,830	343,400	1,263,472
Hawaii	1	1	0	48,000	0	50,000	0	28,000	0	22,000	0	0	0	3,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	15,000	0	16,000	0	16,000	0	0	0	0	0	0
Washington	7	7	0	398,900	0	424,954	0	188,000	44,000	91,500	23,000	100,800	46,000	185,800
PAD District V Total	57	53	4	2,859,170	266,320	3,039,853	294,100	1,591,700	545,800	702,950	50,550	665,630	396,900	1,462,772
United States Total	247	214	33	14,837,685	1,299,456	15,652,864	1,406,341	7,165,470	1,851,600	5,310,250	491,575	3,907,450	951,830	9,008,938

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[1] Refineries where distillation units are completely idle but not permanently shutdown on January 1, 1984.

Source: U.S. Energy Information Administration, Petroleum Supply Annual

SECTION IX. IMPORTS

Table 1. The Share of Imports in U.S. Domestic Petroleum Demand

Table 2. Total U.S. Imports of Petroleum and Petroleum Production

Table 3. U.S. Crude Oil Imports by Area

Table 4. U.S. Imports of Crude Petroleum by Country of Origin

Table 5. U.S. Imports of Crude Oil by P.A.D. Districts

Table 6. U.S. Imports of Residual and Distillate Fuel by P.A.D. Districts

Table 7. U.S. Imports of Unfinished Oils and Refined Products by P.A.D.

Table 8. Total U.S. Petroleum Imports by Source

Table 9. U.S. Direct Petroleum Imports From Members of the Organization of Arab Petroleum Exporting Countries, September 1973-April 1974

Table 10. World Oil Movements

Section IX
Table 1

THE SHARE OF IMPORTS IN U.S. DOMESTIC PETROLEUM DEMAND

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1947	159,389	1,989,803	8.0
1948	188,144	2,113,678	8.9
1949	235,559	2,118,250	11.1
1950	310,261	2,392,974	13.0
1951	308,194	2,578,766	11.9
1952	348,507	2,668,134	13.1
1953	377,499	2,776,778	13.6
1954	383,955	2,833,896	13.5
1955	455,564	3,089,348	14.7
1956	525,591	3,214,651	16.3
1957	574,589	3,221,949	17.8
1958	620,589	3,327,993	18.6
1959	649,583	3,477,173	18.7
1960	664,111	3,585,820	18.5
1961	699,666	3,641,280	19.2
1962	759,793	3,796,029	20.0
1963	774,713	3,921,364	19.8
1964	826,736	4,034,236	20.5
1965	900,772	4,202,039	21.4
1966	939,162	4,410,796	21.3
1967	925,991	4,584,526	20.2
1968	1,039,369	4,901,789	21.2
1969	1,155,551	5,159,930	22.4
1970	1,248,062	5,364,473	23.3
1971	1,432,880	5,552,560	25.8
1972	1,735,314	5,990,316	29.0
1973	2,283,493	6,317,303	36.1
1974	2,230,947	6,078,239	36.7
1975	2,210,335	5,957,515	37.1
1976	2,676,411	6,390,750	41.9
1977	3,207,106(1)	6,727,468	47.7
1978	2,993,847(1)	6,879,017	43.5
1979	3,062,053(1)	6,757,077	45.3
1980	2,512,636(1)	6,242,445	40.3
1981	2,095,122(1)	5,861,058	35.7
1982	1,806,165(1)	5,582,938	32.4
1983	1,758,457(1)	5,559,364	31.6

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(1) Excludes crude oil imports into Strategic Petroleum Reserve: 1977 - 7,540; 1978 - 58,798; 1979 - 23,434; 1980 - 16,067; 1981 - 93,298; 1982 - 60,193; 1983 - 85,285

Source: U.S. Energy Information ADMINISTRATION; Annual Petroleum Statements.
1981-1983 - U.S. Energy Information Administration; Petroleum Supply Annual and Petroleum Supply Monthly

Section IX
Table 2

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

	IMPORTS					Production		
Year	Crude Oil	Unfinished Oils	Plant Condensate	Refined Products	Total All Imports	Crude Oil and Condensate	Natural Gas Liquids	Total
1947	97,532	(1)	(2)	61,857	159,389	1,856,987	132,173	1,989,160
1948	129,093	(1)	(2)	59,051	188,144	2,020,185	146,721	2,168,906
1949	153,686	(1)	(2)	81,873	235,559	1,841,940	157,086	1,999,026
1950	177,714	(1)	(2)	132,547	310,261	1,973,574	181,961	2,155,535
1951	179,073	(1)	(2)	129,121	308,194	2,247,711	204,754	2,452,465
1952	209,591	(1)	(2)	138,916	348,507	2,289,836	223,515	2,513,351
1953	236,455	(1)	(2)	141,044	377,499	2,357,082	238,579	2,595,661
1954	239,479	(1)	(2)	144,476	383,955	2,314,988	252,133	2,567,121
1955	285,421	(1)	(2)	170,143	455,564	2,484,428	281,371	2,765,799
1956	341,833	(1)	(2)	183,758	525,591	1,617,283	292,727	2,910,010
1957	373,255	(1)	(2)	201,334	574,589	2,616,901	294,990	2,911,891
1958	348,007	(1)	(2)	272,582	620,589	2,448,987	294,749	2,743,736
1959	352,344	23,072	(2)	274,167	649,583	2,574,590	320,757	2,895,347
1960	371,575	16,478	(2)	276,058	664,111	2,574,933	340,157	2,915,090
1961	381,548	25,348	(2)	292,770	699,666	2,621,758	361,689	2,983,447
1962	411,039	32,516	(2)	316,238	759,793	2,676,189	372,705	3,048,894
1963	412,660	31,702	(2)	330,351	774,713	2,752,723	400,886	3,153,609
1964	438,643	32,587	(2)	355,506	826,736	2,786,822	422,471	3,209,293
1965	452,040	33,706	(2)	415,026	900,772	2,848,514	441,556	3,290,070
1966	447,120	35,236	(2)	456,806	939,162	3,027,763	468,635	3,496,398
1967	411,649	35,225	(2)	479,117	925,991	3,215,742	514,456	3,730,198
1968	472,323	29,350	(2)	537,696	1,039,369	3,329,042	550,311	3,879,353
1969	514,114	38,766	(2)	602,671	1,155,551	3,371,751	580,241	3,951,992
1970	483,293	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366
1971	613,417	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729
1972	811,135	45,705	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584
1973	1,183,996	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326
1974	1,269,155	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683

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(1) Separate data not available prior to 1959
(2) Separate data not available prior to 1970

SOURCE: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

	IMPORTS					Production		
Year	Crude Oil	Unfinished Oils	Plant Condensate	Refined Products	Total All Imports	Crude Oil and Condensate	Natural Gas Liquids	Total
1975	1,498,181	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737
1976	1,935,012	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225
1977	2,414,327(3)	11,239	15,003	774,077	3,214,646	3,009,265	590,455	3,599,720
1978	2,319,826(3)	9,913	6,017	716,889	3,052,645	3,178,216	572,086	3,750,302
1979	2,379,541(3)	21,372	4,729	680,825	3,086,487	3,121,310	578,023	3,699,333
1980	1,926,162(3)	20,015	3,781	598,745	2,548,703	3,146,365	575,787	3,722,152
1981	1,604,703(3)	40,793	3,658	539,265	2,188,419	3,128,624	587,119	3,715,743
1982	1,273,214(3)	63,657	2,292	527,195	1,866,358	3,156,715	565,876	3,722,591
1983	1,215,225(3)	85,580	2,355	540,584	1,843,744	3,170,999	568,926	3,739,925

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(3) Includes SPR crude oil imports—1977-7,540; 1978-58,798; 1979-23,434; 1980-16,067; 1981-93,298; 1982-60,193; 1983-85,285

SOURCE: U.S. Energy Informaton Administration, Annual Petroleum Statement.
1981-1983—U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1947	97,146	—	386	—	97,532
1948	105,912	—	23,181	—	129,093
1949	116,736	—	36,950	—	153,686
1950	136,096	—	41,618	—	177,714
1951	138,074	—	37,501	3,498	179,073
1952	147,771	—	56,556	5,264	209,591
1953	141,552	—	80,930	13,969	236,451
1954	148,010	—	77,764	13,705	239,479
1955	173,166	—	100,344	11,941	285,451
1956	225,007	—	103,517	13,309	341,833
1957	261,736	—	87,798	23,719	373,253
1958	199,256	—	123,091	25,732	348,079
1959	212,707	—	115,875	23,762	352,344
1960	230,229	1,451	113,175	26,720	371,575
1961	237,995	1,887	118,997	22,669	381,548
1962	267,680	9,808	109,071	24,480	411,039
1963	278,933	9,173	103,214	21,340	412,660
1964	289,012	17,743	108,841	23,047	438,643
1965	283,377	24,585	121,908	22,170	452,040
1966	289,800	31,543	107,579	18,198	447,120
1967	301,002	20,151	67,977	22,519	411,649
1968	315,977	57,461	72,330	26,555	472,323
1969	337,847	82,380	61,616	32,271	514,114
1970	351,366	44,365	61,892	25,670	483,293
1971	378,102	68,361	124,155	42,779	613,397
1972	421,799	172,105	155,982	61,249	811,135
1973	532,238	285,481	292,988	73,289	1,183,996
1974	446,534	356,121	362,186	104,314	1,269,155

Source: U.S. Bureau of Mines, Crude Petroleum, Petroleum products and Natural Gas Liquids, Annual and December issues.

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1975	453,772	488,515	409,496	146,398	1,498,181
1976	316,202	716,661	681,189	220,965	1,935,012
1977	328,468	912,631	910,744	262,484	2,414,327
1978	345,624	830,773	832,305	311,124	2,319,826
1979	436,525	910,644	765,249	267,123	2,379,541
1980	379,813	731,342	561,248	253,759	1,926,162
1981	352,373	486,768	447,518	318,044	1,604,703
1982	430,885	282,706	248,560	311,163	1,273,214
1983	497,237	247,555	160,221	310,213	1,215,225

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Argentina	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--	--	268	545	--
Canada	--	--	--	--	463	1,116	2,527	2,565	16,810	42,739	55,131	30,426	33,730	41,349
Chile	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Colombia	10,944	8,542	11,678	16,159	16,312	16,209	15,860	12,415	8,125	9,009	8,366	9,411	12,437	14,799
Curacao and Aruba	5,125	4,707	613	611	--	--	--	371	487	--	--	--	--	--
Ecuador	--	--	--	--	--	--	90	300	474	368	933	--	--	--
Mexico	5,578	3,601	4,797	12,307	13,862	8,483	2,897	3,018	5,510	4,666	2,441	672	112	925
Peru	--	--	--	--	--	--	--	608	855	509	--	192	--	--
Trinidad	--	--	--	--	--	--	--	356	121	566	1,111	120	--	269
Venezuela	75,499	89,062	99,648	107,019	107,437	121,963	120,178	128,377	140,754	167,050	193,756	158,167	165,883	172,887
Total Western Hemisphere	97,146	105,912	116,736	136,096	138,074	147,771	141,552	148,010	173,136	225,007	261,738	199,256	212,707	230,229
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	284
Angola	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--	--	--	1,167
Gabon	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tunisia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	1,451
Abu Dhabi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iran	--	4,507	1,107	111	--	--	--	204	3,202	7,257	6,624	5,348	8,961	13,056
Iraq	--	766	341	--	--	705	2,287	2,188	6,988	9,650	4,477	8,972	7,667	6,363
Kuwait	111	3,442	23,445	26,741	21,601	26,444	38,611	41,046	48,954	50,953	51,389	68,098	59,169	47,512
Neutral Zone	--	--	--	--	--	--	--	2,983	6,639	3,072	2,050	12,007	15,091	16,363
Qatar	--	--	--	116	--	--	3,368	3,524	5,511	4,915	2,247	1,513	231	1,649
Saudi Arabia	275	14,466	12,057	14,650	15,900	29,407	36,668	27,819	29,050	27,670	21,011	27,081	24,756	28,232
Total Middle East	386	23,181	36,950	41,618	37,501	56,556	80,934	77,764	100,344	103,517	87,798	123,019	115,875	113,175
Borneo	--	--	--	--	3,498	1,624	--	--	--	--	--	4,679	3,739	--
Australia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia (Sumatra)	--	--	--	--	--	3,640	13,969	13,705	11,941	13,309	23,719	21,053	20,023	26,720
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Far East	--	--	--	--	3,498	5,264	13,969	13,705	11,941	13,309	23,719	25,732	23,762	26,720
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	386	23,181	36,950	41,618	40,999	61,820	94,903	91,469	112,285	116,826	111,517	148,751	139,637	141,346
ANNUAL TOTAL	97,532	129,093	153,686	177,714	179,073	209,591	236,455	239,479	285,421	341,833	373,255	348,007	352,344	371,575

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IX
Table 4a

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Argentina	--	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	1,237	7,016	6,866	5,596	534	798
Brazil	1,773	1,277	2,052	--	--	--	--	--	--	--	--
Canada	66,614	85,152	90,394	101,607	107,762	126,712	150,409	169,418	203,298	245,258	263,294
Chile	--	--	--	--	--	--	633	1,975	1,464	--	261
Colombia	10,050	8,614	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175
Curacao and Aruba	--	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	--	--	--	--
Mexico	3,655	3,644	3,657	3,577	2,552	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	--	216	--	--
Trinidad	152	--	--	--	--	--	--	--	--	265	--
Venezuela	155,751	168,993	174,537	174,012	157,852	147,427	131,089	125,737	111,722	97,996	110,574
Total Western Hemisphere	237,995	267,680	278,933	289,167	283,377	289,800	301,002	315,977	337,847	351,366	378,102
Algeria	--	1,543	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685
Angola	--	--	--	--	--	--	--	--	424	--	1,301
Egypt	1,887	1,543	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924
Gabon	--	--	--	--	--	--	661	--	--	--	--
Libya	--	6,722	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426
Nigeria	--	--	--	--	5,296	4,114	1,432	3,131	17,958	17,490	34,826
Tunisia	--	--	--	--	--	--	--	--	--	--	1,199
Total Africa	1,887	9,808	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361
Abu Dhabi/ United Arab Emirates(5)	--	--	--	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026
Iran	21,970	17,735	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576
Iraq	7,362	856	321	--	5,695	9,447	1,716	--	--	--	3,932
Kuwait	44,311	40,749	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650
Neutral Zone	19,278	15,837	15,855	17,565	9,756	7,028	4,006	10,749	15,864	--	--
Qatar	3,575	9,535	5,835	7,294	4,346	176	--	--	191	--	--
Saudi Arabia	22,501	24,359	28,806	35,464	48,235	45,771	29,679	18,959	12,665	14,538	41,971
Total Middle East	118,997	109,071	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155
Australia	--	--	--	--	--	--	--	--	--	--	2,567
Indonesia (Sumatra)	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232
Malaysia	--	--	--	--	--	--	--	--	--	--	--
Total Far East	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	143,553	143,359	133,727	149,631	168,663	157,320	110,647	156,346	176,267	131,927	235,315
ANNUAL TOTAL	381,548	411,039	412,660	438,643	452,040	447,120	411,649	472,323	514,114	483,293	613,417

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(5) Figures from 1947-1971 reflect Abu Dhabi only. Beginning 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates.

Source: U.S. Bureau of Mines, December and Annual Petroleum Statements

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Bolivia	—	891	2,467	1,940	1,849	1,271	308	328	301	—	—
Canada	312,440	365,370	288,763	219,175	135,690	101,778	90,490	99,081	73,002	59,904	78,041
Colombia	1,695	778	—	—	2,041	—	—	—	—	—	—
Ecuador	5,331	17,229	15,225	20,679	18,671	20,229	13,910	11,010	6,129	13,967	11,788
Mexico	—	489	597	25,660	31,670	64,711	115,426	159,616	185,541	171,363	235,298
Trinidad	8,626	21,739	23,045	42,097	38,142	48,841	51,974	44,950	42,011	37,186	33,541
Venezuela	93,300	125,742	116,437	144,221	88,139	91,331	66,125	106,794	56,950	53,590	56,434
Total Western Hemisphere	421,799	532,238	446,534	453,772	316,202	328,468	345,624	436,525	379,813	352,373	430,885
United Kingdom	—	—	—	125	4,923	35,583	61,555	71,923	63,459	134,766	161,061
Netherlands	—	—	—	1,500	—	1,509	846	2,685	22	1	3
Norway	—	—	322	4,552	12,881	17,628	37,815	27,523	52,727	41,452	37,299
Total Europe	—	—	322	6,177	17,804	54,720	100,216	102,131	116,208	176,315	198,365
Algeria	31,573	43,619	65,764	96,459	149,190	198,468	231,253	222,042	166,980	95,165	32,714
Angola	5,785	17,753	17,536	26,051	2,426	6,150	2,290	14,088	13,389	16,528	15,248
Congo (Brazzaville)	—	—	—	—	3,142	2,440	5,454	909	2,658	1,276	456
Egypt	3,091	5,296	3,227	1,687	6,311	13,034	7,395	20,205	11,249	12,155	14,683
Gabon	—	—	8,552	9,811	9,685	12,632	13,841	15,328	9,062	12,663	14,429
Libya	40,069	48,585	1,495	81,403	162,457	256,984	232,897	234,173	200,406	115,57[illegible]	8,452
Nigeria	88,887	163,687	254,358	272,265	370,962	412,498	332,035	390,116	307,840	222,981	186,329
Tunisia	2,520	6,541	4,519	839	5,400	10,425	4,460	6,429	2,801	4,104	3,481
Zaire	—	—	—	—	7,088	—	263	1,379	4,690	5,977	6,914
Total Africa	172,105	285,481	356,121	488,515	716,661	912,631	830,773	910,644	731,342	486,768	282,706
United Arab Emirates	26,873	25,764	25,158	42,585	93,105	121,640	140,653	102,709	63,052	27,950	29,509
Iran	49,700	78,990	168,956	101,575	109,073	193,415	202,357	108,269	3,086	—	12,854
Iraq	1,315	1,529	—	707	9,542	26,894	22,673	32,052	10,328	—	974
Israel	—	—	—	—	2,368	—	—	—	—	—	—
Kuwait	13,205	15,208	1,820	1,444	451	15,434	1,718	1,898	9,712	—	904
Oman	—	—	—	492	10,943	27,140	22,240	13,466	8,693	8,702	8,183
Qatar	1,263	2,663	6,189	6,657	8,631	24,281	23,224	11,450	7,920	2,665	2,600
Saudi Arabia	63,626	168,525	159,827	256,036	447,071	501,072	416,910	491,514	457,671	406,059	193,536
Total Middle East	155,982	292,988	362,186	409,496	681,184	910,744	832,305	765,249	561,248	447,518	248,560
Australia	327	—	—	—	—	—	—	—	—	—	—
Indonesia	59,633	73,055	103,482	138,270	196,599	184,984	194,620	138,528	114,990	116,126	82,315
Malaysia	966	234	510	1,951	5,914	20,257	13,677	18,954	22,213	12,143	6,574
Total Far East	60,926	73,289	103,992	140,221	202,513	207,089	210,632	159,933	137,551	128,269	90,023
U.S.S.R.	323	—	—	—	648	675	276	—	—	—	—
Total Eastern Hemisphere	389,336	651,758	822,621	1,044,409	1,618,810	2,085,859	1,974,202	1,943,016	1,546,349	1,252,330	842,429
ANNUAL TOTAL	811,135	1,183,996	1,269,155	1,498,181	1,935,012	2,414,327	2,319,826	2,379,541	1,926,162	1,604,703	1,273,214

Source: Energy Information Administration, Annual Petroleum Statements.
1981-1982 — Energy Information Administration, Petroleum Supply Annual.

Section IX
Table 4c

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1983
Bolivia	1,361
Canada	100,142
Colombia	0
Ecuador	20,594
Mexico	279,703
Trinidad & Tobago	30,207
Venezuela	59,854
Total Western Hemisphere	497,237
United Kingdom	133,142
Netherlands	1,039
Norway	23,836
Total Europe	193,529
Algeria	64,274
Angola	25,763
Congo	6,616
Egypt	8,958
Gabon	21,415
Libya	0
Nigeria	109,807
Tunisia	2,564
Zaire	8,158
Total Africa	247,555
United Arab Emirates	6,641
Iran	15,757
Iraq	3,758
Israel	0
Kuwait	2,641
Oman	12,281
Qatar	0
Saudi Arabia	117,325
Total Middle East	160,221
Australia	0
Indonesia	115,156
Malaysia	930
Total Far East	116,683
U.S.S.R.	0
Total Eastern Hemisphere	717,988
ANNUAL TOTAL	1,215,225

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual

U.S. IMPORTS OF CRUDE OIL BY P.A.D. DISTRICTS
(Thousands of Barrels)

Year	P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil
1952(1)	192,349	1,116	4,423	—	11,703	209,591
1953	202,611	2,562	2,871	—	28,411	236,455
1954	213,413	2,772	4,553	—	18,741	239,479
1955	232,850	7,425	11,098	—	34,048	285,421
1956	244,453	19,904	11,917	70	65,489	341,833
1957	247,395	22,296	8,726	86	94,749	373,255
1958	238,769	25,328	16,242	13	67,655	348,007
1959	235,259	21,279	10,184	15	85,607	352,344
1960	244,196	23,265	2,939	20	101,155	371,575
1961	236,905	30,971	2,354	30	111,288	381,548
1962	244,235	34,646	2,489	682	128,987	411,039
1963	248,199	34,666	1,698	3,528	124,569	412,660
1964	252,527	37,801	1,835	4,409	142,071	438,643
1965	258,361	41,264	—	4,807	147,608	452,040
1966	259,499	48,114	449	4,954	134,104	447,120
1967	216,920	56,408	672	6,648	131,001	411,649
1968	263,866	78,365	741	10,058	119,393	472,323
1969	269,007	88,434	—	12,714	143,959	514,114
1970	211,403	115,613	—	17,573	138,704	483,293
1971	252,088	137,064	20,449	16,869	186,947	613,417
1972	354,549	171,338	28,331	14,126	242,791	811,135
1973	466,074	260,368	145,654	16,132	295,768	1,183,996
1974	428,608	250,771	289,999	16,579	283,198	1,269,155
1975	451,549	282,658	437,049	16,090	310,835	1,498,181
1976	517,840	366,107	651,381	19,878	379,806	1,935,012
1977(2)	553,955	516,775	927,596	15,957	400,044	2,414,327
1978(2)	542,856	494,132	1,045,691	18,132	219,015	2,319,826
1979(2)	522,580	556,861	1,083,749	23,656	192,695	2,379,541
1980(2)	491,292	409,533	854,233	14,268	156,836	1,926,162
1981(2)	407,384	248,393	828,287	10,513	110,126	1,604,703
1982(2)	349,583	211,727	628,591	14,625	68,687	1,273,214
1983(2)	298,070	193,427	632,974	13,959	76,794	1,215,225

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(1) Figures not available by P.A.D.D. prior to 1952.

(2) Figures include crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Bureau of Mines, 1952-1972 Minerals Yearbook
U.S. Energy Information Administration 1973-1980 Annual Petroleum Statements
U.S. Energy Information Administration 1981-1983 — Petroleum Suppl/ Annual

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year(2)	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel
1950	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	120,036	2,602
1951	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	119,166	1,767
1952	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	128,479	2,742
1953	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	131,533	3,379
1954	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	129,124	3,195
1955	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	152,035	4,413
1956	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	162,869	5,159
1957	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	173,229	8,566
1958	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	182,306	14,892
1959	219,341	17,283	230	13	2,981	360	1	2	18	0	222,571	17,658
1960	211,788	11,365	59	12	14,416	1,298	0	96	6,945	0	233,208	12,771
1961	214,453	15,533	284	24	12,320	1,654	1	142	16,210	24	243,268	17,377
1962	237,565	9,811	610	31	11,775	1,892	47	92	14,317	5	264,314	11,831
1963	252,785	7,787	800	63	12,327	1,250	26	1	6,815	9	272,753	9,110
1964	274,306	10,559	804	64	11,204	1,119	45	0	9,412	43	295,771	11,785
1965	318,634	11,041	1,188	17	14,598	1,811	43	0	10,724	133	345,187	13,002
1966	357,907	12,548	860	107	11,708	967	55	0	6,265	223	376,795	13,845
1967	383,260	16,851	587	224	7,475	891	60	0	4,557	526	395,939	18,492
1968	394,528	45,502	573	360	8,271	1,290	54	0	6,502	996	409,928	48,148
1969	440,983	47,720	627	1,264	12,167	937	78	0	7,756	962	461,611	50,883
1970	536,968	49,333	4,207	2,223	11,029	1,192	52	0	5,589	1,078	557,845	53,826
1971	558,771	53,373	3,953	258	6,553	1,079	41	0	8,382	1,073	577,700	55,783
1972	616,990	64,302	5,458	473	6,212	1,191	0	0	8,741	483	637,401	66,449
1973	639,611	125,210	6,068	1,353	10,471	12,406	0	104	20,075	4,076	676,225	143,149
1974	538,573	95,018	7,919	621	11,806	6,766	—	32	20,859	3,142	579,157	105,579

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(1) Figures not available by P.A.D. prior to 1959.
(2) Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands.

Source: U.S. Bureau of Mines. 1950–1972, Minerals Yearbook
1973–1974, Crude Petroleum, Petroleum Products, and Natural Gas Liquids: Annual and December issues

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of Barrels)

Year[2]	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel
1975	416,105	54,300	14,015	223	3,957	1,441	—	1	12,451	713	446,528	56,678
1976	495,980	49,225	11,720	97	1,728	680	--	--	7,897	3,518	517,325	53,520
1977	467,124	88,171	11,754	55	818	413	—	—	16,369	2,673	496,065	91,318
1978	468,937	59,023	17,101	306	939	210	—	--	7,663	3,749	494,640	63,288
1979	392,861	64,091	14,267	70	2,044	1,568	—	4	10,972	4,756	420,144	70,489
1980	317,157	48,518	10,754	—	6,485	1,268	—	--	9,161	2,122	343,557	51,908
1981	260,156	59,180	8,592	5	14,055	2,634	—	2	9,266	1,251	292,070	63,070
1982	235,912	29,763	3,966	392	35,700	1,526	9	4	7,514	2,355	283,101	34,040
1983	222,276	56,129	5,375	3,075	19,555	2,189	193	488	7,814	1,660	255,213	63,542

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(2) Figures include receipts from Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

Section IX
Table 7

U.S. IMPORTS OF UNFINISHED OILS AND REFINED PRODUCTS BY P.A.D. DISTRICTS(2)
(Thousands of Barrels)

Year	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products
1959(1)	16,628	264,347	587	606	2,148	4,861	—	31	3,709	4,322	23,072	274,167
1960	9,534	248,388	520	1,019	994	16,788	—	121	5,430	9,742	15,478	276,058
1961	18,045	256,484	1,184	1,324	145	15,258	—	180	5,974	19,524	25,348	292,770
1962	22,297	279,475	360	1,746	1,616	15,101	—	154	8,243	19,672	32,516	316,238
1963	21,779	299,530	476	2,193	2,102	14,952	—	39	7,345	13,637	31,702	330,351
1964	21,151	321,994	478	3,552	1,011	13,117	—	159	9,947	16,684	32,587	355,506
1965	23,260	369,760	213	5,739	377	18,073	—	727	9,856	20,727	33,706	415,026
1966	26,743	410,435	43	7,276	15	13,826	—	971	8,435	24,298	35,236	456,806
1967	23,222	434,265	20	7,171	276	9,873	—	879	11,707	26,929	35,225	479,117
1968	21,987	489,628	1	7,573	109	10,618	—	2,253	7,253	27,624	29,350	537,696
1969	28,975	543,947	51	8,245	1,034	15,087	—	2,979	8,706	32,413	38,766	602,671
1970	30,221	651,123(3)	—	20,022(3)	913	21,191	—	3,192(3)	8,127	29,980(3)	39,261	725,508(3)
1971	30,651	685,309(3)	—	22,918(3)	2,217	17,425	—	7,786(3)	12,325	43,832(3)	45,193	777,270(3)
1972	30,715	761,491(3)	—	39,798(3)	1,548	16,474	—	16,623(3)	13,442	44,088(3)	45,705	878,474(3)
1973	26,216	874,707(3)	739	53,985(3)	10,681	45,714	—	16,285(3)	12,525	58,645(3)	50,161	1,049,336
1974	14,084	757,416(3)	1,155	49,860(3)	19,208	43,356(3)	—	14,143(3)	9,781	52,789(3)	44,228	917,564(3)
1975	6,038	578,739(3)	392	49,345(3)	4,170	15,989(3)	—	12,327(3)	2,385	42,769(3)	12,985	699,169(3)
1976	7,721	619,068	16	34,334	3,750	13,382	—	5,888(3)	248	32,584	11,735	705,256
1977	9,333	665,984	15	43,912	905	17,422	—	5,922	986	40,659	11,239	773,899
1978	9,022	614,132	15	45,676	226	8,427	—	4,635	650	43,998	9,913	716,868
1979	7,945	545,758	338	68,663	7,687	21,135	—	4,737	5,402	40,532	21,372	680,825
1980	11,489	446,336	217	68,505	5,855	25,986	—	5,222	2,454	32,696	20,015	578,745
1981	18,096	392,310	396	69,554	19,442	39,355	—	7,877	2,858	33,827	40,792	542,923
1982	23,182	355,073	2,708	65,611	35,027	63,820	—	7,141	2,741	37,842	63,657	529,487
1983	32,030	390,381	4,120	62,081	47,060	50,025	604	6,981	1,765	33,471	85,580	542,938

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(1) Figures not available by P.A.D. district prior to 1959.
(2) Figures include receipts from Puerto Rico and Virgin Islands.
(3) Includes plant condensate.

Source: U.S. Department of Interior, 1959-1972, Minerals Yearbook
Department of Energy, 1973-1980, Annual Petroleum Statements.
1981-1983, Petroleum Supply Annual.

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels Per Day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
WESTERN HEMISPHERE													
Bahamas	--	--	--	--	--	--	--	--	--	--	--	1	--
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69
Ecuador	--	--	--	--	--	--	--	--	--	--	--	--	--
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41
Neth. Antilles	273	338	324	300	264	297	312	333	361	332	361	392	450
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876
Virgin Islands	--	--	--	--	--	--	--	--	--	--	36	78	116
Other	5	11	8	2	10	9	21	10	11	21	41	46	34
Total	1,265	1,267	1,356	1,399	1,493	1,660	1,726	1,815	1,967	2,066	2,145	2,264	2,481
EASTERN HEMISPHERE													
Abu Dhabi/United Arab Emirates(1)	--	--	--	--	--	--	--	3	14	13	5	16	14
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89
Italy	--	8	4	1	--	--	--	1	2	18	28	49	75
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46
Iraq	--	--	--	--	--	--	--	--	--	--	--	--	--
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39
Libya	--	--	--	--	--	19	19	39	41	69	42	114	135
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	15	11	5	8	49
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	25	81	83	81	103	94	82	93	85	91	70	140	196
Total	309	433	424	416	424	422	397	443	501	507	392	576	685
TOTAL U.S. IMPORTS	1,574	1,700	1,780	1,815	1,917	2,082	2,123	2,258	2,468	2,573	2,537	2,840	3,166

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(1) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Bureau of Mines

Section IX
Table 8a

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels Per Day)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
WESTERN HEMISPHERE													
Bahamas	32	150	174	174	164	152	116	167	160	147	76	74	65
Canada	767	857	1,108	1,325	1,070	846	599	516	467	538	455	447	482
Colombia	45	27	16	9	5	9	21	17	20	18	4	--	--
Ecuador	--	--	--	48	42	57	51	55	54	42	27	48	42
Mexico	42	27	21	16	8	71	87	179	318	439	533	522	685
Neth. Antilles	442	429	424	585	511	332	275	214	229	231	225	197	175
Puerto Rico	87	95	102	99	90	90	88	105	94	92	88	62	50
Trinidad	217	182	226	255	251	242	273	286	253	190	176	133	112
Venezuela	983	1,019	960	1,135	979	702	699	687	646	690	481	406	412
Virgin Islands	189	273	303	329	391	406	422	466	428	431	388	327	316
Other	52	18	61	28	21	44	44	16	33	50	59	79	84
Total	2,856	3,077	3,395	4,033	3,532	2,951	2,675	2,708	2,701	2,868	2,512	2,216	2,423
EASTERN HEMISPHERE													
Abu Dhabi/United Arab Emirates(1)	63	80	73	71	74	117	254	333	385	281	172	81	92
Algeria	8	15	92	135	190	282	432	552	649	636	488	311	170
Indonesia	70	111	164	213	300	389	539	533	573	420	348	366	248
Italy	83	79	83	125	74	27	37	51	38	30	4	--	--
Iran	38	112	142	223	469	280	298	530	555	304	9	--	35
Iraq	--	11	4	4	--	3	26	76	62	88	28	--	3
Kuwait	36	36	45	47	5	16	5	48	6	8	27	--	5
Libya	47	57	123	164	4	232	453	715	654	658	554	319	26
Malaysia	N.A.	N.A.	1	12	12	8	18	63	42	66	70	36	20
Netherlands	N.A.	N.A.	12	53	43	18	8	31	5	23	2	30	35
Nigeria	50	103	251	459	713	762	1,025	1,135	919	1,080	857	620	514
Norway	N.A.	N.A.	2	1	1	17	36	50	104	75	144	119	102
Oman	N.A.	N.A.	N.A.	N.A.	1	2	30	79	68	44	25	24	22
Qatar	--	--	3	7	17	18	24	67	64	31	22	7	7
Saudi Arabia	42	127	190	486	461	715	1,230	1,377	1,144	1,356	1,261	1,129	552
United Kingdom	N.A.	N.A.	10	9	8	11	31	124	180	202	176	375	456
Other	134	143	152	244	207	208	174	272	324	286	209	363	403
Total	563	848	1,347	2,253	2,579	3,105	4,620	6,036	5,662	5,588	4,396	3,780	2,690
TOTAL U.S. IMPORTS	3,419	3,925	4,742	6,256	6,111	6,056	7,295	8,744	8,363	8,456	6,908	5,996	5,113

N.A. Not available on individual country basis, included in "Other."

(1) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts", Annual Reports.
U.S. Energy Information Administration, 1981-1982 — Petroleum Supply Annual.

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels per Day)

	1983
WESTERN HEMISPHERE	
Bahamas	125
Canada	547
Colombia	--
Ecuador	61
Mexico	826
Neth. Antilles	189
Puerto Rico	40
Trinidad	96
Venezuela	422
Virgin Islands	282
Other	114
Total	2,702
EASTERN HEMISPHERE	
Abu Dhabi/United Arab Emirates	30
Algeria	240
Indonesia	338
Italy	--
Iran	48
Iraq	10
Kuwait	14
Libya	--
Malaysia	4
Netherlands	65
Nigeria	302
Norway	66
Oman	34
Qatar	--
Saudi Arabia	337
United Kingdom	382
Other	479
Total	2,349
TOTAL U.S. IMPORTS	5,051

SOURCE: U.S. Energy Information Administration; Petroleum Supply Annual

U.S. DIRECT PETROLEUM IMPORTS FROM MEMBERS OF THE ORGANIZATION OF ARAB PETROLEUM EXPORTING COUNTRIES

SEPTEMBER 1973 - APRIL 1974
(Thousands of Barrels)

OAPEC MEMBERS	SEPTEMBER 1973			OCTOBER 1973			NOVEMBER 1973			DECEMBER 1973		
	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
2. Bahrain	--	38	38	--	589	589	--	552	552	--	99	99
3. Egypt	--	--	--	--	--	--	--	--	--	--	--	--
4. Iraq	515	--	515	364	--	364	--	--	--	--	--	--
5. Kuwait	1,334	--	1,334	1,724	--	1,724	--	--	--	--	--	--
6. Libya	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
7. Qatar	1,222	--	1,222	543	--	543	273	--	273	74	--	74
8. Saudi Arabia	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	2,652	--	2,652	1,920	3	1,923	3,197	--	3,197	--	1	1
OAPEC TOTAL	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
U.S. TOTAL	104,117	88,227	192,344	115,905	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
OAPEC AS A % OF U.S. TOTAL	30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

OAPEC MEMBERS	JANUARY 1974			FEBRUARY 1974			MARCH 1974			APRIL 1974		
	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	--	--	--	75	--	75	244	--	244	3,448	141	3,589
2. Bahrain	--	--	--	--	3	3	--	--	--	--	--	--
3. Egypt	--	--	--	--	--	--	--	--	--	543	--	543
4. Iraq	--	--	--	--	--	--	--	--	--	--	--	--
5. Kuwait	--	--	--	--	--	--	--	--	--	62	--	62
6. Libya	29	--	29	468	--	468	142	--	142	244	--	244
7. Qatar	--	--	--	--	--	--	--	--	--	--	--	--
8. Saudi Arabia	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	304	--	304	--	--	--	--	--	--	405	--	405
OAPEC TOTAL	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
U.S. TOTAL	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
OAPEC AS A % OF U.S. TOTAL	1.3%	0.1%	0.6%	2.6%	*	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

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* Less than one-tenth of one percent
(1) Less than 1/2 unit

Source: U.S. Bureau of Mines and U.S. Bureau of Census

Section IX
Table 10

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1972

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	30	70	65	--	10	40	5	5	--	225
Canada	1,085	--	--	--	--	--	--	--	--	--	1,085
Caribbean	2,270	520	160	545	5	10	10	--	--	100	3,620
Other Western Hemisphere	45	--	25	--	--	--	30	--	--	--	1,000
Western Europe	160	15	--	--	40	--	--	--	20	90	325
Middle East	475	250	1,115	8,570	460	1,265	3,770	260	605	180	16,950
North Africa	230	30	250	2,730	10	--	5	--	220	--	3,475
West Africa	265	70	290	1,170	--	--	70	--	30	20	1,915
South East Asia	180	--	10	5	10	--	830	55	--	--	1,090
USSR, Eastern Europe	20	--	130	970	75	--	25	--	40	--	1,260
Other Eastern Hemisphere	10	--	--	5	--	30	5	--	--	--	50
TOTAL IMPORTS	4,740	915	2,050	14,060	600	1,315	4,785	320	920	390	30,095

1973

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination not known	Total Exports
United States	--	30	55	85	5	25	30	--	--	--	230
Canada	1,335	--	--	--	--	--	--	--	--	--	1,335
Caribbean	2,540	500	130	355	5	5	10	--	--	85	3,630
Other Western Hemisphere	80	--	100	--	--	--	--	--	--	20	200
Western Europe	265	--	--	--	60	--	--	--	10	70	405
Middle East	820	320	1,000	10,350	535	1,315	4,385	290	775	180	19,970
North Africa	360	40	175	2,545	5	--	20	--	265	10	3,420
West Africa	515	90	415	1,030	--	--	110	--	5	--	2,165
South East Asia	240	--	--	10	--	--	1,115	40	--	--	1,405
USSR, Eastern Europe	35	--	145	935	75	5	55	--	20	15	1,285
Other Eastern Hemisphere	15	--	--	--	--	25	35	--	5	5	85
TOTAL IMPORTS	6,205	980	2,020	15,310	685	1,375	5,760	330	1,080	385	34,130

*Includes quantities in transit, transit losses, minor movements not otherwise shown, military uses, etc.

SOURCE: BP Statistical Review of World Energy

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1974

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	30	60	75	5	5	35	10	--	--	220
Canada	1,025	--	--	20	--	--	--	--	--	--	1,045
Caribbean	2,320	430	155	320	10	--	10	--	--	--	3,245
Other Western Hemisphere	125	--	120	--	--	--	--	--	--	--	245
Western Europe	240	--	--	--	80	--	15	--	35	95	465
Middle East	1,025	400	1,265	10,195	490	1,320	4,050	285	715	305	20,050
North Africa	230	15	130	1,915	10	--	70	--	255	--	2,625
West Africa	795	15	305	1,300	--	30	100	--	--	--	2,545
South East Asia	315	--	45	5	--	--	990	45	--	--	1,400
USSR, E. Europe & China	30	--	160	1,010	60	--	120	--	20	--	1,400
Other Eastern Hemisphere	20	--	--	--	--	30	40	--	--	--	90
TOTAL IMPORTS	6,125	890	2,240	14,840	655	1,385	5,430	340	1,025	400	33,330

1975

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Total Exports
United States	--	20	65	70	5	--	30	10	10	210
Canada	800	--	--	--	--	--	--	--	--	800
Latin America	2,270	270	120	380	40	--	20	--	75	3,175
Western Europe	45	--	--	--	165	--	--	--	35	245
Middle East	1,140	540	1,525	8,815	475	1,450	3,675	255	630	18,505
North Africa	500	--	140	1,530	--	--	70	--	165	2,405
West Africa	850	20	200	835	--	--	70	--	--	1,975
East and South Africa	--	--	--	--	--	35	--	--	--	35
South Asia	--	--	--	5	--	--	--	--	--	5
South East Asia	400	--	80	--	10	--	885	80	--	1,455
Japan	--	--	--	5	--	--	--	--	--	5
Australasia	5	--	--	--	--	10	35	--	--	50
USSR, E. Europe & China	15	--	210	970	15	70	160	--	30	1,470
TOTAL IMPORTS	6,025	850	2,340	12,610	710	1,565	4,945	345	945	30,335

*Includes quantities in transit, transit losses, minor movements not otherwise shown, military use, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10b

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1976

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	10	70	80	10	5	30	5	10	--	220
Canada	595	--	--	5	--	--	--	--	--	--	600
Latin America	2,010	320	140	335	10	--	10	5	30	450	3,310
Western Europe	160	--	--	--	100	--	--	--	85	--	345
Middle East	1,910	385	1,725	9,405	490	1,630	3,955	255	710	390	20,855
North Africa	915	20	160	1,680	15	10	45	--	225	--	3,070
West Africa	1,085	30	230	860	--	--	25	--	--	--	2,230
East and South Africa	--	--	--	--	--	30	--	--	--	--	30
South East Asia	585	--	15	5	--	--	1,080	80	--	--	1,765
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	40	--	--	--	55
USSR, E. Europe & China	20	--	160	1,355	20	100	135	--	25	--	1,815
TOTAL IMPORTS	7,290	765	2,500	13,725	645	1,785	5,320	345	1,085	840	34,300

1977

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	25	105	75	5	--	30	5	5	--	250
Canada	540	--	--	--	--	--	--	--	--	--	540
Latin America	2,205	290	110	290	45	--	10	--	65	100	3,115
Western Europe	250	--	10	--	130	5	--	5	80	--	480
Middle East	2,560	395	1,570	8,855	485	1,600	4,095	240	805	125	20,730
North Africa	1,320	--	150	1,735	5	--	25	--	60	--	3,295
West Africa	1,220	--	275	845	--	--	--	--	30	--	2,370
East and South Africa	--	--	--	--	--	20	--	--	--	--	20
South Asia	--	--	--	--	--	--	--	--	--	--	--
South East Asia	590	--	--	20	5	--	1,155	90	5	50	1,915
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	45	--	--	--	60
USSR, E. Europe & China	15	--	180	1,475	5	120	150	--	30	--	1,975
TOTAL IMPORTS	8,710	710	2,400	13,295	680	1,755	5,510	340	1,080	275	34,755

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.
SOURCE: BP Statistical Review of World Energy

Section IX
Table 10c

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1978

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	90	90	85	10	5	30	5	50	--	365
Canada	445	--	--	--	--	--	--	--	--	--	445
Latin America	2,225	290	360	345	25	--	15	--	40	100	3,400
Western Europe	375	--	--	--	135	--	--	--	40	--	550
Middle East	2,300	275	1,525	8,685	425	1,610	4,010	250	515	135	19,730
North Africa	1,310	--	200	1,770	15	--	10	--	65	--	3,370
West Africa	975	--	300	780	60	--	--	--	--	--	2,115
East and South Africa	--	--	--	5	--	5	--	--	--	--	10
South Asia	--	--	--	5	--	--	--	--	--	--	5
South East Asia	570	--	--	20	15	--	1,085	100	--	--	1,790
Japan	5	--	--	--	--	10	--	--	--	--	15
Australasia	10	--	--	--	--	10	35	--	--	--	55
USSR, E. Europe & China	10	--	200	1,395	25	200	150	--	30	--	2,010
TOTAL IMPORTS	8,225	655	2,675	13,099	710	1,840	5,335	355	740	235	33,860

1979

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	100	225	105	--	15	35	5	--	--	485
Canada	455	--	--	--	--	--	--	--	--	--	455
Latin America	2,410	230	210	270	25	--	10	--	135	355	3,645
Western Europe	350	--	--	--	145	--	--	--	25	--	520
Middle East	2,115	260	1,535	8,685	440	1,745	4,155	285	910	305	20,435
North Africa	1,355	20	120	1,870	20	--	15	--	25	--	3,425
West Africa	1,185	--	390	1,010	60	--	--	--	--	--	2,645
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	10	10	--	20	--	40
South East Asia	530	--	25	25	10	--	1,215	90	20	--	1,915
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	10	--	--	--	--	--	15	--	--	--	25
USSR, E. Europe & China	--	--	200	1,115	35	180	150	--	60	--	1,740
TOTAL IMPORTS	8,410	610	2,705	13,080	735	1,970	5,605	380	1,195	660	35,350

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.
SOURCE: BP Statistical Review of World Energy

Section IX
Table 10d

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1980

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	105	290	145	5	10	--	--	--	--	555
Canada	370	--	--	30	--	10	10	--	--	25	445
Latin America	2,050	215	275	625	50	--	80	5	235	350	3,885
Western Europe	355	5	--	--	85	5	--	--	10	--	460
Middle East	1,555	300	1,615	7,275	445	1,745	3,560	220	695	100	17,510
North Africa	1,015	5	135	1,440	15	--	55	--	155	--	2,820
West Africa	985	5	420	990	60	--	15	--	--	--	2,475
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	--	5	--	35	--	40
South East Asia	405	--	--	15	25	--	1,075	140	45	--	1,705
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	--	--	--	5	--	10	5	--	--	--	20
USSR, E. Europe & China	--	--	205	1,300	--	225	180	--	95	--	2,005
TOTAL IMPORTS	6,735	635	2,940	11,825	685	2,020	4,985	365	1,270	475	31,935

1981

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	95	260	135	5	40	40	10	10	10	605
Canada	425	--	5	15	5	--	--	--	--	5	455
Latin America	1,950	295	220	880	105	--	155	25	380	370	4,380
Western Europe	525	5	--	--	105	10	5	--	110	--	760
Middle East	1,255	195	1,395	5,750	385	1,755	3,020	180	555	115	14,605
North Africa	655	30	70	1,350	--	--	70	--	--	--	2,175
West Africa	720	5	285	660	40	--	20	--	--	--	1,730
East and South Africa	--	--	--	--	10	5	5	--	--	--	20
South Asia	--	--	--	--	--	5	5	5	30	--	45
South East Asia	395	--	--	50	20	--	950	95	150	--	1,660
Japan	--	--	--	--	--	5	--	5	--	--	10
Australasia	5	--	--	--	--	10	--	--	--	--	15
USSR, E. Europe & China	20	--	185	1,405	--	240	190	--	155	--	2,195
TOTAL IMPORTS	5,950	625	2,420	10,245	675	2,070	4,460	320	1,390	500	28,655

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10e

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1982

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	90	315	225	10	65	75	10	10	15	815
Canada	470	--	--	10	--	--	5	--	--	--	485
Latin America	2,050	180	415	750	100	10	150	--	150	330	4,135
Western Europe	580	25	30	--	155	10	--	5	160	--	965
Middle East	770	95	920	4,625	275	1,640	2,755	155	425	--	11,660
North Africa	245	15	125	1,500	20	--	45	--	190	5	2,145
West Africa	605	5	105	700	45	--	--	--	40	--	1,500
East and South Africa	--	--	--	--	20	5	--	--	--	--	25
South Asia	--	--	--	45	--	5	5	5	10	--	70
South East Asia	275	--	--	25	20	--	890	135	135	--	1,480
Japan	--	--	--	5	--	5	--	5	--	--	15
Australasia	5	--	--	--	--	--	20	--	--	--	25
USSR, E. Europe & China	40	--	200	1,465	--	240	210	5	85	--	2,245
TOTAL IMPORTS	5,040	410	2,110	9,350	645	1,980	4.155	320	1,205	350	25,565

1983

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	80	255	185	15	80	105	15	5	--	740
Canada	540	--	--	--	--	--	5	--	--	--	545
Latin America	2,160	125	425	820	65	5	180	5	160	120	4,065
Western Europe	550	15	25	--	145	5	--	5	105	10	860
Middle East	575	60	855	3,415	405	1,615	2,750	120	545	15	10,355
North Africa	280	25	60	1,675	5	--	40	--	95	--	2,180
West Africa	475	15	115	755	25	--	5	--	35	--	1,425
East and South Africa	--	--	--	--	--	5	--	--	--	--	5
South Asia	--	--	--	5	10	25	15	10	--	--	65
South East Asia	345	--	--	25	20	--	780	85	55	90	1,400
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	5	--	--	--	--	10	30	--	5	--	50
USSR, E. Europe & China	60	--	220	1,785	--	240	235	5	110	--	2,655
TOTAL IMPORTS	4,990	320	1,955	8,665	690	1,995	4,145	245	1,115	235	24,355

*Includes changes in the quantity of oil in transit, transit losses, minor movements not otherwise shown, unidentified military use, etc.

SOURCE: BP Statistical Review of World Energy

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Petroleum
Table 2. U.S. Exports of Petroleum to Selected Areas
Table 3. African Oil Exports to Selected Areas
Table 4. Middle East Oil Exports to Selected Areas
Table 5. The Role of Middle East and African Oil in Western European and Japanese Consumption
Table 6. The Role of Middle East and African Oil in World Exports

TOTAL U.S. DOMESTIC PRODUCTION AND EXPORTS OF CRUDE OIL AND ITS PRODUCTS
(Thousands of barrels)

Year	Production[1]	Exports	Exports As a % of U.S. Production
1947	1,989,850	164,477	8.3
1948	2,167,264	134,674	6.2
1949	1,999,215	119,376	6.0
1950	2,155,693	111,306	5.2
1951	2,452,465	154,052	6.3
1952	2,513,351	158,188	6.3
1953	2,596,661	146,591	5.6
1954	2,567,121	129,733	5.1
1955	2,765,799	134,188	4.9
1956	2,910,010	157,386	5.4
1957	2,911,891	207,187	7.1
1958	2,743,736	100,638	3.7
1959	2,895,347	77,067	2.7
1960	2,915,090	73,906	2.5
1961	2,983,447	63,563	2.1
1962	3,048,894	61,390	2.0
1963	3,153,609	75,914	2.4
1964	3,209,293	73,879	2.3
1965	3,290,070	68,288	2.1
1966	3,496,398	72,400	2.1
1967	3,730,198	112,060	3.0
1968	3,879,353	84,544	2.2
1969	3,951,992	84,885	2.1
1970	4,123,366	94,458	2.3
1971	4,071,729	81,685	2.0
1972	4,093,584	81,389	2.0
1973	3,995,326	84,413	2.1
1974	3,818,683	80,491	2.1
1975	3,652,737	76,428	2.1
1976	3,563,225	81,599	2.3
1977	3,599,720	88,588	2.5
1978	3,750,302	132,057	3.5
1979	3,699,333	171,856	4.6
1980	3,722,152	199,256	5.4
1981	3,715,743	217,024	5.8
1982	3,722,591	297,514	8.0
1983	3,730,085	269,890	7.2

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(1) Figures include crude oil, lease condensate and natural gas liquids.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

Section X
Table 2

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of Barrels)

	CANADA		MEXICO		CARIBBEAN(1)		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		TOTAL U.S. EXPORTS
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	
1947	39,058	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565	4,424	20,674	N.A.		—	—	—	14,565	—	2,786	164,477
1948	33,298	20,629	62	4,157	1,498	8,788	1,417	3,439	471	16,223	2,991	13,150	N.A.		—	—	—	8,570	—	2,400	134,674
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410	547	12,423	N.A.		—	364	—	7,176	—	2,922	119,376
1950	30,708	15,953	—	6,229	1,829	7,278	661	4,141	441	5,868	851	8,227	N.A.		334	92	—	2,953	—	1,916	111,306
1951	21,172	17,867	—	7,034	2,167	9,729	1,356	3,932	457	13,914	1,048	12,284	N.A.		2,403	4,878	—	11,406	—	4,783	154,052
1952	20,172	25,211	—	7,130	2,513	13,703	1,789	4,295	499	9,889	976	9,466	N.A.		748	7,286	—	13,126	—	5,896	158,188
1953	14,025	26,939	—	8,281	2,620	10,399	1,081	3,515	418	9,201	926	7,809	N.A.		862	10,508	—	8,740	—	5,043	146,591
1954	8,130	22,635	—	12,003	2,928	7,185	608	5,003	462	7,687	745	5,424	N.A.		726	8,166	—	5,996	—	2,734	129,733
1955	6,501	20,329	—	16,062	3,136	7,713	236	6,426	532	8,875	650	7,385	N.A.		515	11,282	—	4,363	—	1,636	134,188
1956	5,570	20,560	—	16,485	3,262	9,979	—	5,007	5,238	10,831	13,377	14,560	N.A.		1,055	9,790	—	4,309	122	2,154	157,386
1957	8,240	18,307	902	15,950	3,283	11,120	—	7,110	14,880	19,660	21,003	29,660	N.A.		1,057	13,642	339	6,431	539	3,328	207,187
1958	1,153	13,497	696	11,568	592	7,977	—	3,661	378	6,010	450	9,420	N.A.		1,076	12,486	—	4,491	—	2,368	100,638
1959	—	16,061	21	8,297	—	3,978	—	4,753	405	6,592	550	9,515	N.A.		1,548	16,153	—	5,819	—	2,383	77,067
1960	—	12,622	—	6,428	—	3,315	—	4,131	433	3,840	568	10,395	N.A.		2,086	20,595	-	5,891	—	2,332	73,906
1961	20	8,381	133	4,415	—	3,721	1	3,143	437	3,268	355	9,401	N.A.		2,218	19,255	55	5,930	—	1,686	63,563
1962	8	7,706	—	4,981	—	2,888	—	3,417	428	2,616	—	10,290	N.A.		1,354	18,333	—	6,544	—	2,655	61,390
1963	2	7,985	3	6,889	—	3,481	—	3,036	424	3,443	1	19,933	N.A.		1,266	20,080	1	7,316	—	3,066	75,914
1964	7	9,791	3	8,920	—	4,503	—	3,656	336	3,191	—	14,387	N.A.		952	19,429	63	6,602	—	2,206	73,879
1965	12	9,619	333	9,452	—	3,322	1	2,635	352	3,924	—	13,365	N.A.		306	14,466	—	7,648	—	1,596	68,288
1966	2	11,715	203	13,955	—	2,179	—	3,240	431	3,784	1	13,522	N.A.		808	12,283	31	7,077	1	2,019	72,400
1967	3,688	14,521	18	12,999	645	3,479	—	4,444	16,959	5,562	4,604	15,318	N.A.		626	17,938	—	7,299	1	2,179	112,060
1968	5	14,126	114	11,140	283	1,603	—	5,138	352	4,838	—	14,912	N.A.		1,048	19,566	—	7,779	—	2,026	84,545
1969	30	16,017	1	12,098	220	2,511	—	5,829	430	4,421	—	17,005	N.A.		755	16,314	—	7,364	—	1,849	84,885
1970	328	10,855	—	12,142	4,264	3,272	—	4,565	176	4,185	—	20,250	N.A.		223	24,868	—	6,433	—	1,475	94,458
1971	6C	9,384	—	15,180	181	4,474	—	5,484	120	3,053	—	19,406	—	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	—	9,599	—	15,061	—	3,888	—	4,374	—	3,705	—	24,033	—	1,158	187	11,475	—	6,165	—	1,744	81,389
1973	—	11,427	—	15,984	—	3,614	—	4,294	—	3,249	177	24,863	—	957	520	11,782	—	5,888	—	1,658	84,413
1974	108	11,504	—	12,885	966	3,023	—	4,005	—	2,317	—	24,238	—	1,146	—	13,809	—	4,728	—	1,762	80,491

N.A. Not Available
(1) As of 1971, includes exports to Puerto Rico and Virgin Islands.
(2) Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419.

Source: U.S. Bureau of Mines: 1947-1974, Minerals Yearbook.

Section X
Table 2a

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of Barrels)

Year	CANADA		MEXICO		CARIBBEAN(1)		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		TOTAL U.S. EXPORTS
	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	
1975	19	8,139	—	15,425	2,127	3,114	—	3,386	—	2,636	—	24,846	—	995	—	10,012	—	3,550	—	2,179	76,428
1976	2,241	8,096	—	12,677	700	8,772	—	3,474	—	2,732	—	27,220	—	1,280	—	9,326	—	3,725	—	2,356	81,599
1977	16,460	9,548	—	8,893	1,795	3,566	—	3,338	—	3,136	—	25,933	—	1,034	—	8,951	—	4,213	—	1,721	88,588
1978	28,761	10,640	—	9,877	28,967	3,373	—	4,459	—	2,447	—	26,457	—	1,380	—	9,642	—	4,802	—	1,252	132,057
1979	26,079	10,299	—	7,835	59,628	3,538	—	4,718	—	2,493	—	37,497	—	1,085	—	12,543	—	4,416	—	1,725	171,856
1980	30,567	8,822	—	10,085	74,367	9,942	—	4,006	—	2,386	—	34,885	—	1,291	—	11,596	—	9,028	—	2,280	199,256(2)
1981	16,440	16,102	—	9,416	65,104	18,692	—	2,781	—	1,971	—	47,710	—	1,912	—	14,014	7	16,715	—	2,595	217,024(2)
1982	13,083	18,019	—	19,464	67,633	23,531	—	6,714	—	5,167	—	77,969	—	2,182	—	24,836	—	28,077	—	2,791	297,514(2)
1983	6,781	21,047	—	8,812	46,431	21,026	—	6,966	—	3,047	—	66,025	—	1,808	—	38,132	—	35,904	—	3,097	269,854(2)

(1) Includes exports to Puerto Rico and Virgin Islands
(2) Includes exports to Greenland, and other.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1983—U.S. Energy Information Administration, Petroleum Supply Annual.

Section X
Table 3

AFRICA OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year[1]	United States	Western Europe	Japan	All Others	Total Middle East Exports
1960	--	237	--	--	237
1961	5	430	--	--	435
1962	25	740	--	--	765
1963	25	1,125	--	30	1,180
1964	55	1,565	--	30	1,650
1965	70	2,040	--	30	2,140
1966	90	2,540	5	130	2,765
1967	55	2,700	--	155	2,910
1968	170	3,535	5	165	3,875
1969	330	4,370	15	230	4,945
1970	125	5,330	50	300	5,805
1971	195	4,430	60	805	5,490
1972	495	3,900	75	920	5,390
1973	875	3,575	130	1,005	5,585
1974	1,025	3,215	170	760	5,170
1975	1,350	2,365	140	560	4,415
1976	2,000	2,540	70	720	5,330
1977	2,540	2,580	25	540	5,685
1978	2,285	2,555	--	655	5,495
1979	2,540	2,880	15	645	6,080
1980	2,000	2,430	70	805	5,305
1981	1,375	2,010	95	445	3,925
1982	850	2,200	45	575	3,670
1983	755	2,430	45	380	3,610

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(1) Not available prior to 1960

Source: "BP Statistical Review of the World Oil Industry," Annual

Section X
Table 4

MIDDLE EAST OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year[1]	United States	Western Europe	Japan	All Others	Total Middle East Exports
1959	355	2,528	--	1,060	4,120
1960	347	2,724	--	1,619	4,690
1961	345	2,855	610	1,280	5,090
1962	315	3,060	720	1,490	5,585
1963	295	3,400	920	1,540	6,155
1964	310	3,740	1,115	1,760	6,925
1965	350	4,195	1,435	1,630	7,610
1966	320	4,375	1,650	2,280	8,625
1967	200	4,605	2,035	2,305	9,145
1968	270	5,065	2,650	2,460	10,445
1969	265	5,780	3,055	2,425	11,525
1970	175	6,220	3,485	2,835	12,715
1971	390	7,685	3,810	3,365	15,250
1972	475	8,570	3,770	4,135	16,950
1973	820	10,350	4,385	4,415	19,970
1974	1,025	10,195	4,050	4,780	20,050
1975	1,140	8,815	3,675	4,875	18,505
1976	1,910	9,405	3,955	5,585	20,855
1977	2,560	8,855	4,095	5,220	20,730
1978	2,300	8,685	4,010	4,735	19,730
1979	2,115	8,685	4,155	5,480	20,435
1980	1,555	7,275	3,560	5,120	17,510
1981	1,255	5,750	3,020	4,580	14,605
1982	770	4,625	2,755	3,510	11,660
1983	575	3,415	2,750	3,615	10,355

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(1) Not available prior to 1959

Source: "BP Statistical Review of the World Oil Industry," Annual

THE ROLE OF MIDDLE EAST AND AFRICAN OIL ON WESTERN EUROPEAN AND JAPANESE CONSUMPTION
(Thousands of Barrels Per Day)

	WESTERN EUROPE			JAPAN		
Year	Consumption	From the Middle East	From Africa	Consumption	From the Middle East	From Africa
1961	4,453	2,855	430	821	610	--
1962	5,128	3,060	740	934	720	--
1963	5,893	3,400	1,125	1,212	920	--
1964	6,692	3,740	1,565	1,484	1,115	--
1965	7,525	4,195	2,040	1,743	1,435	--
1966	8,360	4,375	2,540	1,979	1,650	5
1967	8,937	4,605	2,700	2,144	2,035	--
1968	9,958	5,065	3,535	2,660	2,650	5
1969	11,378	5,780	4,370	3,250	3,055	15
1970	12,364	6,220	5,330	3,847	3,485	50
1971	12,912	7,685	4,430	4,179	3,810	60
1972	13,847	8,570	3,900	4,364	3,770	75
1973	14,492	10,350	3,575	5,071	4,385	130
1974	13,681	10,195	3,215	4,960	4,050	170
1975	12,603	8,815	2,365	4,502	3,675	140
1976	13,448	9,405	2,540	4,771	3,955	70
1977	14,235	8,855	2,580	5,345	4,095	25
1978	14,630	8,685	2,555	5,420	4,012	10
1979	15,037	8,685	2,880	5,480	4,155	15
1980	13,826	7,275	2,430	4,960	3,560	70
1981	13,045	5,750	2,010	4,690	3,020	95
1982	12,500	4,625	2,200	4,395	2,755	45
1983	12,190	3,415	2,430	4,360	2,750	45

Source: 1961-1980: Western Europe and Japanese Consumption: U.S. Department of Energy, International Petroleum Annual
1981-1983: Western Europe and Japanese Consumption: BP Statistical Review of the World Oil Industry
1961-1983: Middle East and African Exports: BP Statistical Review of the World Oil Industry

Section X
Table 6

THE ROLE OF MIDDLE EAST AND AFRICAN OIL IN WORLD EXPORTS
(Thousands of Barrels/Day)

	MIDDLE EAST		AFRICA		TOTAL WORLD	
Year	Production	Exports	Production	Exports	Production	Exports
1961	5,633	5,090	489	435	22,428	9,870
1962	6,186	5,585	804	765	24,334	11,285
1963	6,812	6,155	1,190	1,180	26,132	12,205
1964	7,613	6,925	1,704	1,650	28,168	13,625
1965	8,367	7,610	2,224	2,140	30,308	15,110
1966	9,338	8,625	2,821	2,765	32,936	16,890
1967	10,048	9,145	3,117	2,910	35,382	17,905
1968	11,298	10,445	3,992	3,875	38,651	20,400
1969	12,447	11,525	5,069	4,945	41,706	22,640
1970	13,957	12,715	6,069	5,805	45,805	25,420
1971	16,381	15,250	5,645	5,490	48,391	27,285
1972	18,116	16,950	5,699	5,390	50,822	30,095
1973	21,219	19,970	5,922	5,585	55,803	34,130
1974	21,882	20,050	5,452	5,170	56,268	33,330
1975	19,619	18,505	5,003	4,415	53,418	30,335
1976	22,174	20,855	5,832	5,330	58,059	34,300
1977	22,600	20,730	6,236	5,685	62,620	34,755
1978	21,415	19,730	6,115	5,495	63,085	33,860
1979	21,558	20,435	6,640	6,080	62,658	35,350
1980	18,407	17,510	6,031	5,305	59,454	31,935
1981	15,752	14,605	4,581	3,925	55,818	28,655
1982	12,664	11,660	4,465	3,670	53,053	25,565
1983	11,550	10,335	4,410	3,610	52,702	24,355

Source: 1961-1978: Total World, Middle East and African Production, U.S. Department of Energy, International Petroleum Annual
1979-1983: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1983: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry

BASIC PETROLEUM DATA BOOK

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Section XI
Table 1

ESTIMATED WORLDWIDE PRODUCTION OF CRUDE OIL
ONSHORE vs OFFSHORE
(Thousands of Barrels)

Year(1)	Onshore Production	Offshore Production	Total World Production
1969	12,961,336	2,261,175	15,222,511
1970	13,961,668	2,757,040	16,718,708
1971	14,649,885	3,012,908	17,662,793
1972	15,346,357	3,254,388	18,600,745
1973	16,729,330	3,638,651	20,367,981
1974	17,140,035	3,397,692	20,537,727
1975	16,316,198	3,186,137	19,502,335
1976	17,661,041	3,530,499	21,191,540
1977	17,738,887	4,161,808	21,900,695
1978	17,961,621	4,196,630	22,158,251
1979	18,139,390	4,625,660	22,765,050
1980	16,754,248	5,009,916	21,764,164
1981	15,388,784	4,984,786	20,373,570
1982	14,452,557	4,949,598	19,395,155
1983	14,272,971	5,001,584	19,274,555
		(Thousands of barrels per day)	
1969	35,511	6,195	41,706
1970	38,251	7,554	45,805
1971	40,126	8,255	48,381
1972	41,930	8,892	50,822
1973	45,835	9,968	55,803
1974	46,957	9,310	56,267
1975	44,689	8,729	53,418
1976	48,253	9,647	57,900
1977	48,600	11,402	60,002
1978	49,210	11,498	60,708
1979	49,852	12,518	62,370
1980	45,766	13,688	59,454
1981	42,161	13,657	55,818
1982	39,576	13,561	53,137
1983	39,104	13,703	52,807

Source: Total World Production, U.S. Energy Information Administration;
1980-1983 production, CIA.
United States Offshore Production, U.S. Geological Survey and U.S. Energy Information Administration
Rest of World Offshore Production, Offshore Magazine

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF CRUDE OIL BY AREA
(Thousands of Barrels)

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations(2)	Total World
1970	583,465	897,900	43,435	1,524,800	760,660	239,805	133,225	4,380	2,662,870	94,170	2,757,040
1971	625,697	908,850	69,423	1,603,970	913,413	233,856	158,410	12,009	2,921,658	91,250	3,012,908
1972	621,315	915,000	82,350	1,618,665	1,040,538	276,293	216,705	15,811	3,168,012	86,376	3,254,388
1973	583,365	985,500	65,822	1,634,687	1,282,161	323,178	287,467	24,718	3,552,211	86,140	3,638,351
1974	535,698	755,999	73,653	1,365,350	1,262,732	380,341	275,082	29,872	3,313,377	84,315	3,397,692
1975	496,537	634,042	97,400	1,227,979	1,070,348	364,876	323,221	116,493	3,102,917	83,220	3,186,137
1976	467,824	613,863	107,103	1,188,790	1,198,203	384,553	407,578	270,855	3,449,979	80,520	3,530,499
1977	439,173	456,250	107,675	1,003,098	1,647,975	490,195	549,690	396,025	4,086,983	74,825	4,161,808
1978	416,325	395,660	103,660	915,645	1,734,845	414,275	525,600	532,535	4,122,900	73,730	4,196,630
1979	398,595	383,250	255,135	1,036,980	1,934,135	355,510	490,560	736,570	4,553,755	71,905	4,625,660
1980	379,650	401,136	281,820	1,062,606	2,132,316	349,164	541,680	850,218	4,935,984	73,932	5,009,916
1981	385,421	381,060	502,970	1,269,451	1,936,325	308,790	539,470	858,480	4,912,516	72,270	4,984,786
1982	412,283	374,490	733,285	1,520,058	1,496,865	286,160	589,840	992,070	4,884,993	64,605	4,949,598
1983	426,919	411,720	747,885	1,586,524	1,322,030	296,015	604,440	1,128,700	4,937,709	63,875	5,001,584
(Thousands of barrels per day)											
1970	1,599	2,460	119	4,178	2,084	657	365	12	7,296	258	7,554
1971	1,714	2,490	190	4,394	2,503	641	434	33	8,005	250	8,255
1972	1,698	2,500	225	4,423	2,843	755	592	43	8,656	236	8,892
1973	1,598	2,700	180	4,478	3,513	885	788	68	9,732	236	9,968
1974	1,468	2,071	202	3,741	3,460	1,042	754	82	9,079	231	9,310
1975	1,360	1,737	267	3,364	2,932	1,000	886	319	8,501	228	8,729
1976	1,278	1,677	293	3,248	3,542	783	1,114	740	9,427	220	9,647
1977	1,203	1,250	295	2,748	4,960	898	1,506	1,085	11,197	205	11,402
1978	1,141	1,084	284	2,509	5,195	693	1,440	1,459	11,296	202	11,498
1979	1,092	1,050	699	2,841	5,149	974	1,344	2,018	12,326	192	12,518
1980	1,037	1,096	770	2,903	5,826	954	1,480	2,323	13,486	202	13,688
1981	1,056	1,044	1,378	3,478	5,305	846	1,478	2,352	13,459	198	13,657
1982	1,130	1,026	2,009	4,165	4,101	784	1,616	2,718	13,384	177	13,561
1983	1,170	1,128	2,049	4,347	3,622	811	1,656	3,092	13,528	175	13,703

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(1) Data not available for prior years.
(2) Only the U.S.S.R. is reported having offshore production until 1978, when China began reporting.

Source: United States Production: 1970-1971, U.S. Geological Survey; 1972-1983, U.S. Energy Information Administration
Rest of World--Offshore Magazine.

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE - OFFSHORE

Year	PRODUCTION (Thousands of Barrels)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore(1)	Offshore(1)	Total
Cumulative to 1953	47,367,775	445,942	47,813,717	$81,119,901	$ 763,977	$81,883,878
1954	2,266,163	48,825	2,314,988	6,289,428	135,502	6,424,930
1955	2,423,885	60,543	2,484,428	6,702,949	167,431	6,870,380
1956	2,542,152	75,131	2,617,283	7,054,406	208,519	7,262,925
1957	2,531,581	85,320	2,616,901	7,815,875	263,384	8,079,259
1958	2,361,047	87,940	2,448,987	7,114,958	265,015	7,379,973
1959	2,471,886	102,704	2,574,590	7,175,225	298,111	7,473,336
1960	2,452,659	122,274	2,574,933	7,067,797	352,384	7,420,181
1961	2,483,272	138,486	2,621,758	7,165,968	399,614	7,565,582
1962	2,503,979	172,210	2,676,189	7,273,791	500,260	7,774,051
1963	2,554,958	197,765	2,752,723	7,393,484	572,259	7,965,743
1964	2,569,436	217,386	2,786,822	7,391,746	625,332	8,017,078
1965	2,606,936	241,578	2,848,514	7,466,393	691,905	8,158,298
1966	2,726,037	301,726	3,027,763	7,856,835	869,588	8,726,423
1967	2,847,820	367,922	3,215,742	8,303,050	1,072,677	9,375,727
1968	2,857,058	471,984	3,329,042	8,406,116	1,388,710	9,794,826
1969	2,841,469	530,282	3,371,751	8,786,876	1,639,804	10,426,680
1970	2,933,985	583,465	3,517,450	9,320,228	1,853,498	11,173,726
1971	2,828,217	625,697	3,453,914	9,574,694	2,118,304	11,692,998
1972	2,834,053	621,315	3,455,368	9,601,562	2,101,948	11,706,510
1973	2,777,538	583,365	3,360,903	10,791,444	2,266,461	13,057,905
1974	2,666,887	535,698	3,202,585	17,970,771	3,609,778	21,580,549

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(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: Total U.S. Production and Total Dollar Value at Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, 1973-1974, U.S. Bureau of Mines; All other years, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 3a

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE - OFFSHORE

Year	PRODUCTION (Thousands of Barrels)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore(1)	Offshore(1)	Total
1975	2,560,242	496,537	3,056,779	$19,361,086	$ 3,754,973	$23,116,059
1976	2,508,356	467,824	2,976,180	20,420,899	3,808,641	24,229,540
1977	2,546,187	439,173	2,985,360	21,996,649	3,794,073	25,790,722
1978	2,761,891	416,325	3,178,216	24,747,514	3,730,310	28,477,824
1979	2,722,715	398,595	3,121,310	34,064,477	4,986,855	39,051,332
1980	2,766,716	379,649	3,146,365	57,791,998	7,930,018	65,722,016
1981	2,743,203	385,421	3,128,624	87,151,743	12,244,641	99,396,384
1982	2,744,432	412,283	3,156,715	78,270,757	11,758,641	90,029,512
1983	2,744,080	426,919	3,170,999	71,867,673	11,180,818	83,048,491

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(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals
Distribution of production and value computed by the American Petroleum Institute

ESTIMATED WORLDWIDE PRODUCTION OF NATURAL GAS
ONSHORE vs OFFSHORE
(Millions of cubic feet)

Year	Onshore Production	Offshore Production	Total World Production
1970	32,832,942	5,261,019(1)	38,093,961
1971	36,505,911	4,682,485(1)	41,188,396
1972	39,506,581	4,107,978(1)	43,524,559
1973	40,434,180	5,709,421	46,143,601
1974	40,934,670	6,243,850	47,178,520
1975	39,864,833	7,652,941	47,517,774
1976	37,475,038	10,830,646	48,305,684
1977	42,475,464	7,624,626	50,100,090
1978	42,240,355	9,508,980	51,749,302
1979	42,773,255	10,067,795	52,841,050
1980	44,413,368	9,725,718	54,139,086
1981	44,029,685	10,085,315	54,115,000
1982	43,368,420	10,326,580	53,695,000

(Millions of cubic feet per day)

Year	Onshore Production	Offshore Production	Total World Production
1970	89,953	14,414	104,367
1971	100,016	12,829	112,845
1972	105,210	13,710	118,920
1973	110,779	15,642	126,421
1974	112,150	17,106	129,256
1975	109,219	20,967	130,186
1976	102,391	29,592	131,983
1977	116,371	20,889	137,261
1978	115,727	26,052	141,779
1979	117,187	27,583	144,770
1980	121,348	26,573	147,921
1981	120,629	27,631	148,260
1982	118,818	28,292	147,110

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(1) Reflects Free World offshore production since Communist Nation production figures are not available prior to 1973.

Source: Offshore Production, Offshore Magazine and U.S. Geological Survey
Total World Production, 1970-78, U.S. Energy Information Administration, World Natural Gas
1979-80, Central Intelligence Agency, International Energy Statistical Review
1981-82, British Petroleum, BP Statistical Reveiw of World Energy

Section XI
Table 5

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

	WESTERN HEMISPHERE									
Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World
1970	3,287,388	27,601	3,314,989	1,568,000	28,700	22,101	396,500	5,330,290	N.A.	N.A.
1971	3,590,850	26,806	3,617,656	214,299	N.A.	35,801	654,901	N.A.	N.A.	N.A.
1972	3,883,885	26,301	3,910,186	252,602	N.A.	44,568	937,092	N.A.	N.A.	N.A.
1973	3,976,454	28,317	4,004,771	263,435	N.A.	102,784	1,095,000	N.A.	244,550	N.A.
1974	4,246,505	39,913	4,286,418	259,661	N.A.	135,900	1,314,000	N.A.	264,625	N.A.
1975	4,164,727	54,020	4,218,747	1,396,125	114,610	132,130	1,388,095	7,249,707	282,510	7,532,217
1976	4,315,396	123,342	4,438,738	259,860	183,000	233,874	5,406,186	10,521,658	328,302	10,849,960
1977	4,496,927	134,685	4,631,612	333,975	79,935	464,645	1,707,835	7,218,002	363,540	7,581,542
1978	5,134,039	219,730	5,353,769	365,365	80,665	897,535	2,453,165	9,150,499	388,360	9,538,859
1979	5,444,904	201,480	5,646,384	362,080	182,500	759,930	2,717,425	9,668,319	423,765	10,092,084
1980	5,382,236	223,260	5,605,496	546,072	185,928	712,602	2,691,198	9,741,296	448,350	10,189,646
1981	5,546,462	495,305	6,041,767	259,150	123,735	793,510	3,082,790	10,300,952	486,180	10,787,132
1982	5,368,227	575,970	5,911,347	115,705	211,700	832,930	3,081,330	10,153,012	518,300	10,671,312
					(Millions of cubic feet per day)					
1970	9,007	75	9,082	4,296	79	61	1,086	14,604	N.A.	N.A.
1971	9,838	73	9,911	587	N.A.	98	1,794	N.A.	N.A.	N.A.
1972	10,612	72	10,684	690	N.A.	122	2,560	N.A.	N.A.	N.A.
1973	10,894	78	10,972	722	N.A.	282	3,000	N.A.	670	N.A.
1974	11,634	109	11,743	711	N.A.	372	3,600	N.A.	725	N.A.
1975	11,410	148	11,558	3,825	314	362	3,803	19,862	774	20,636
1976	11,791	337	12,128	710	500	639	14,771	28,748	897	29,645
1977	12,320	369	12,689	915	219	1,273	4,679	19,775	996	20,771
1978	14,066	602	14,668	1,001	221	2,459	6,721	25,070	1,064	26,134
1979	14,918	552	15,470	992	500	2,082	7,445	26,489	1,161	27,650
1980	14,706	610	15,316	1,492	508	1,947	7,353	26,616	1,225	27,841
1981	15,196	1,357	16,553	710	339	2,174	8,446	28,222	1,332	29,554
1982	14,707	1,488	16,195	317	580	2,282	8,442	27,816	1,420	29,236

N.A. Not Available

Source: U.S. Production—U.S. Geological Survey
Rest of World—Offshore Magazine

Section XI
Table 6

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet) Onshore	Offshore	Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars) Onshore(1)	Offshore(1)	Total
Cumulative to 1953	142,838,325	91,675	142,930,000	$ --	$ --	$ --
1954	8,671,935	70,611	8,742,546	875,370	7,131	882,501
1955	9,296,219	109,132	9,405,351	967,008	11,349	978,357
1956	9,957,253	124,670	10,081,923	1,070,405	13,407	1,083,812
1957	10,527,855	152,403	10,680,258	1,184,610	17,149	1,201,759
1958	10,806,671	223,607	11,030,298	1,290,786	26,706	1,317,492
1959	11,732,065	314,050	12,046,115	1,516,214	40,856	1,556,800
1960	12,362,872	408,166	12,771,038	1,732,763	57,207	1,789,970
1961	12,802,998	451,027	13,254,025	1,928,309	67,932	1,996,241
1962	13,246,639	629,983	13,876,622	2,047,904	97,397	2,145,301
1963	13,906,600	759,959	14,666,559	2,207,391	120,639	2,328,030
1964	14,622,301	839,842	15,462,143	2,257,990	129,699	2,387,689
1965	15,108,715	931,038	16,039,753	2,349,734	144,808	2,494,542
1966	15,846,670	1,359,958	17,206,628	2,489,133	213,626	2,702,759
1967	16,472,127	1,699,198	18,171,325	2,710,170	279,571	2,989,741
1968	17,002,857	2,319,543	19,322,400	2,788,319	380,369	3,168,688
1969	17,952,811	2,745,429	20,698,240	2,997,262	458,353	3,455,615
1970	18,633,254	3,287,388	21,920,642	3,183,940	561,740	3,745,680
1971	19,352,162	3,590,850	22,943,012	3,446,063	639,419	4,085,482
1972	18,647,813	3,883,885	22,531,698	3,459,876	720,586	4,180,462
1973	18,671,095	3,976,454	22,647,549	4,034,771	859,301	4,894,072
1974	17,354,017	4,246,505	21,600,522	5,281,137	1,292,265	6,573,402

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(1) Total dollar value distributed in proportion to percentage of production onshore and offshore.

Sources: U.S. Total Production and Total Dollar Value at the Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 6a

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet) Onshore	Offshore	Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars) Onshore[1]	Offshore[1]	Total
1975	15,943,934	4,164,727	20,108,661	$ 7,092,450	$ 1,852,612	$ 8,945,062
1976	15,637,042	4,315,396	19,952,438	9,069,032	2,502,744	11,571,776
1977	15,528,536	4,496,927	20,025,463	12,272,078	3,553,876	15,825,954
1978	14,839,994	5,134,039	19,974,033	13,430,116	4,616,384	18,076,500
1979	15,026,356	5,444,904	20,471,260	17,699,890	6,413,744	24,113,634
1980	14,996,551	5,382,236	20,378,787	23,586,880	8,465,302	32,052,182
1981	14,631,239	5,546,462	20,177,701	28,969,884	10,981,964	39,951,848
1982	13,151,448	5,368,227	18,519,675	32,308,618	13,188,147	45,496,765
1983	12,170,095	4,486,905	16,657,000			

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(1) Total dollar value distributed in proportion to percentage of production onshore and offshore

Source: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 7

TOTAL OFFSHORE WELLS DRILLED IN THE UNITED STATES(1)
FEDERAL AND STATE LEASES
Alltime to January 1, 1984

	EXPLORATORY WELLS				DEVELOPMENT WELLS				TOTAL WELLS			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
ALASKA												
State	19	7	54	80	256	12	31	299	275	19	85	379
Federal	--	--	19	19	--	--	--	--	--	--	19	19
Total	19	7	73	99	256	12	31	299	275	19	104	398
CALIFORNIA												
State	20	10	138	168	3065	22	307	3394	3085	32	445	3562
Federal	19	0	147	166	350	3	16	369	369	3	163	535
Total	39	10	285	334	3415	25	323	3763	3454	35	608	4097
OREGON												
Federal	--	--	8	8	--	--	--	--	--	--	8	8
WASHINGTON												
State	--	--	2	2	--	--	--	--	--	--	2	2
Federal	--	--	4	4	--	--	--	--	--	--	4	4
Total	--	--	6	6	--	--	--	--	--	--	6	6
PACIFIC OCEAN												
State	39	17	194	250	3321	34	338	3693	3360	51	532	3943
Federal	19	--	199	218	350	3	16	369	369	3	215	587
Total	58	17	393	468	3671	37	354	4062	3729	54	747	4530
FLORIDA												
State	--	--	15	15	--	--	--	--	--	--	15	15
Federal	--	--	9	9	--	--	--	--	--	--	9	9
Total	--	--	24	24	--	--	--	--	--	--	24	24
LOUISIANA												
State	61	94	882	1037	1798	518	722	3038	1859	612	1604	4075
Federal	201	246	2944	3391	6042	3495	3554	13091	6243	3741	6498	16482
Total	262	340	3826	4428	7840	4013	4276	16129	8102	4353	8102	20557
TEXAS												
State	35	173	675	883	50	138	119	307	85	311	794	1190
Federal	10	80	985	1075	53	264	564	881	63	344	1549	1956
Total	45	253	1660	1958	103	402	683	1188	148	655	2343	3146
N. GULF OF MEXICO												
Federal	--	--	184	184	63	18	41	122	63	18	225	306
GULF OF MEXICO												
State	96	267	1572	1935	1848	656	841	3345	1944	923	2413	5280
Federal	211	326	4122	4659	6158	3777	4159	14094	6369	4103	8281	18753
Total	307	593	5694	6594	8006	4433	5000	17439	8313	5026	10694	24003
ALABAMA												
State	--	1	--	1	1	1	1	3	1	2	1	4
ATLANTIC OCEAN												
Federal	--	--	33	33	--	--	--	--	--	--	33	33
GRAND TOTAL												
State	135	285	1766	2186	5170	691	1180	7041	5305	976	2946	9227
Federal	230	326	4538	5094	6571	3798	4216	14585	6801	4124	8754	19679
Total	365	611	6304	7280	11741	4489	5396	21626	12106	5100	11700	28906

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(1) Offshore wells are defined as those producing from beyond natural shore lines.

Source: American Petroleum Institute

Section XI
Table 8

ACCUMULATED PRODUCTION STATE AND FEDERAL OFFSHORE LEASES
ALLTIME TO JANUARY 1, 1982

	Oil & Lease Condensate M bbls	Percent of Total	Gas MMCF	Percent of Total
ALASKA				
State	763,091	100	882,510	100
Federal	--	--	--	--
CALIFORNIA				
State	1,797,416	89	661,770	88
Federal	211,473	11	88,015	12
Subtotal	2,008,889		749,785	
WEST COAST				
State	2,560,507	92	1,544,280	95
Federal	211,473	8	88,015	5
Subtotal	2,771,980		1,632,295	
LOUISIANA				
State	1,243,290	20	9,714,168	16
Federal	5,448,811	80	49,800,253	84
Subtotal	6,692,101		59,514,421	
TEXAS				
State	24,110	32	2,501,389	42
Federal	52,373	68	3,508,511	58
Subtotal	76,483		6,009,900	
GULF OF MEXICO				
State	1,267,400	19	12,215,557	19
Federal	5,501,184	81	53,308,764	81
Subtotal	6,768,584		65,524,321	
TOTAL				
State	3,827,907	40	13,759,837	20
Federal	5,712,657	60	53,396,779	80
GRAND TOTAL	9,540,564		67,156,616	

Source: U.S. Geological Survey.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
10/13/54	La.	199	748,000	90	394,721	$116,378,476	$ 1,184,175	$ 295	$ 1,220
11/09/54	Tex.	38	111,788	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,995	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,536	12,875
11/04/71	La.	18	55,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	96	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	508,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	1,421,546	144	675,587	1,428,261,330	2,026,812	2,114	39,111
TOTAL		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

Source: U.S. Department of the Interior, U.S. Geological Survey

Section XI
Table 9a

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
Cumulative totals 1954-1974		4,451	20,150,435	2,323	10,772,003	$14,793,568,042	$34,945,372	$1,373	--
02/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	$ 3,566
05/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
05/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
07/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
07/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
02/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
02/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
02/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
04/13/76	Ak.	189	1,008,499	76	409,057	599,836,587	1,226,718	1,369	11,023
08/17/76	MAL(1)	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
06/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
06/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
03/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
04/25/78	La.	87	392,894	57	262,250	503,820,339	789,770	1,921	11,038
04/25/78	Tex.	58	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,302
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
02/28/79	MAL(1)	109	620,557	39	222,038	40,001,631	718,848	180	6,832
06/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
07/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
07/31/79	Tx.	42	215,770	28	136,685	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	962,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA(2)	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
09/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
TOTAL (1954-1980)		9,358	42,857,357	3,980	19,142,130	30,779,503,142	60,525,536	1,608	

(1) Middle Atlantic
(2) North Atlantic

Source: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics

Section XI
Table 9b

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
05/28/81	Ca.	111	603,613	60	320,583	2,049,412,639	835,142	6,393	65,014
06/30/81(5)	Ak.	175	996,307	1	5,693	170,496	18,432	30	417
07/21/81	GOM(4)	212	1,077,914	156	799,899	2,649,628,751	2,399,736	3,312	37,444
08/04/81	So. Atl.	285	1,622,557	47	267,580	342,766,174	866,304	1,281	18,228
09/29/81	Cook In.	153	858,247	13	73,157	4,405,899	236,856	60	407
10/20/81	GOM	209	1,081,364	102	508,287	1,243,468,752	1,524,903	2,446	53,313
12/08/81	MAL	253	1,440,376	50	284,659	321,981,000	921,600	1,131	7,284
02/09/82	GOM	234	1,219,847	115	590,265	1,193,654,719	1,770,795	2,022	N.A.
06/11/82	So. Ca.	140	716,866	29	147,066	117,875,281	443,913	669	N.A.
8/05/82(5)	Atl,Ca.,Ak.	554	3,142,069	36	204,955	11,149,450	663,552	54	N.A.
10/13/82	Ak.	338	1,825,770	121	662,861	2,055,632,336	2,146,112	3,101	N.A.
11/17/82	GOM	144	732,570	56	281,213	609,178,223	850,107	2,166	N.A.
03/08/83	GOM	125	665,478	11	58,120	37,570,900	174,360	646	N.A.
03/15/83	Ak-NB	418	2,379,751	59	335,898	317,873,372	1,013,760	946	N.A.
04/12/83	Ak-SG	479	2,688,787	96	540,917	426,458,830	1,639,638	780	N.A.
04/26/83	MAL	4,050	22,670,685	37	210,641	68,410,240	681,984	325	N.A.
05/25/83	CGOM	7,050	37,867,762	623	3,089,872	3,367,606,134	9,269,616	1,090	N.A.
07/26/83	SAL	3,582	20,392,985	11	62,625	13,362,040	202,752	213	N.A.
08/24/83	WGOM	5,848	32,620,248	406	2,246,005	1,501,712,517	6,738,015	668	N.A.
11/30/83	C.Ca.	137	768,341	8	43,801	16,022,336	131,397	366	N.A.
01/05/84	EGOM	8,868	50,631,513	156	897,786	310,586,261	2,693,358	346	N.A.
04/17/84	Ak.Nav.	5,036	28,048,995	163	927,989	516,317,331	3,074,316	556	N.A.
04/24/84	CGOM	6,502	34,743,780	453	2,278,179	1,323,036,649	6,834,537	581	N.A.
07/18/84	WGOM	5,446	30,038,593	361	1,949,186	844,850,488	5,847,558	433	N.A.
08/22/84	AK-Diap.	1,474	7,773,447	227	1,207,714	866,860,327	3,623,142	718	N.A.
TOTAL (1954-1984)		61,181	329,427,769	7,378	37,147,323	50,953,827,460	115,219,591	N.A.	N.A.

(1) Middle Atlantic
(2) North Atlantic
(4) Gulf of Mexico
(5) Resale

Source: U.S. Department of Interior, Minerals Management Service.

Section XI
Table 10

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year--All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
1953	$ -	$ -	$ 1,359,630	$ 30,650	$ 967,892	$ 2,358,172	$ 2,358,172	$ 5,036,861	$ 5,036,861
1954	140,969,005	-	3,855,333	86,950	2,748,977	147,660,265	150,018,437	14,370,098	19,406,959
1955	108,528,725	-	3,406,351	122,000	5,140,006	117,197,082	267,215,519	27,060,679	46,467,638
1956	-	-	4,006,193	79,950	7,629,383	11,715,526	278,931,045	39,497,871	85,965,509
1957	-	68,581	3,270,122	110,268	11,391,245	14,840,216	293,771,261	61,072,588	147,038,097
1958	-	184,396	2,420,584	121,218	17,423,878	20,150,076	313,921,337	96,471,136	243,509,233
1959	89,746,993	171,036	2,285,725	84,984	26,539,977	118,828,715	432,750,052	150,472,527	393,981,760
1960	282,717,065	316,975	3,603,140	49,350	37,095,301	323,781,831	756,531,883	200,969,615	594,951,375
1961	-	314,121	3,073,861	37,100	47,920,332	51,345,414	807,877,297	273,636,456	868,587,831
1962	489,481,111	517,722	8,412,207	62,200	66,096,334	564,569,574	1,372,446,871	376,675,900	1,245,263,731
1963	12,807,587	668,339	8,435,184	52,950	76,999,225	98,963,285	1,471,410,156	450,866,484	1,696,130,215
1964	95,874,326	820,343	9,798,573	45,800	88,400,230	194,939,272	1,666,349,428	506,783,510	2,202,913,725
1965	33,740,309	1,072,699	8,731,378	38,450	102,862,540	146,445,376	1,812,794,804	594,222,732	2,797,136,457
1966	209,199,893	1,367,250	6,869,277	41,700	136,987,537	354,465,657	2,167,260,461	801,724,611	3,598,861,068
1967	510,109,742	1,891,515	6,208,936	41,400	157,607,609	675,859,202	2,843,119,663	947,214,691	4,546,075,759
1968	1,346,487,097	2,145,178	8,230,787	52,300	201,136,931	1,558,052,293	4,401,171,956	1,179,912,209	5,725,987,968
1969	111,660,685	1,923,632	8,312,607	41,650	240,090,666	362,029,240	4,763,201,196	1,443,870,472	7,169,858,440
1970	945,064,773	1,745,864	8,607,855	47,700	283,494,568	1,238,960,760	6,002,161,956	1,707,593,450	8,877,451,890
1971	96,304,522	1,891,000	7,741,997	32,300	350,042,488	456,012,307	6,458,174,263	2,135,677,078	11,013,128,968
1972	2,251,347,556	2,019,533	7,984,897	49,550	363,556,339	2,624,957,875	9,083,132,138	2,229,179,121	13,242,308,089
1973	3,082,462,611	2,391,249	8,948,816	52,650	401,126,114	3,494,981,440	12,578,113,578	2,486,864,855	15,729,172,944
1974	5,022,860,815	2,048,439	13,532,754	32,550	560,283,889	5,598,758,447	18,176,872,025	3,570,053,959	19,299,226,903
TOTAL--All States	14,829,362,815	21,557,872	139,096,207	1,313,670	3,185,541,461	18,176,872,025	18,176,872,025	19,299,226,903	19,299,226,903

NOTE: Revenue = charges and/or collection--bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31, 1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500--leases on appeal validated.

Source: U.S. Department of Interior, U.S. Geological Survey, Outer Continental Shelf Statistics, June 1975

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year—All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
Cumulative 1953-1974	$14,829,362,765	$21,557,872	$139,096,207	$1,313,670	$3,185,541,461	$18,176,872,025	$18,176,872,025	$19,299,226,903	$19,299,226,903
1975	1,088,133,152	2,085,885	17,522,037	39,500	615,544,570	1,723,325,144	19,900,197,169	3,924,914,930	23,224,141,833
1976	2,242,898,467	2,128,336	23,370,502	38,400	699,424,790	2,967,860,495	22,868,057,664	4,402,439,996	27,626,581,829
1977	1,568,564,745	1,678,957	19,830,026	21,106	919,647,466	2,509,742,300	25,377,799,964	5,774,056,434	33,400,638,263
1978	1,767,042,064	2,207,183	21,512,669	3,950	1,150,346,082	2,941,111,948	28,318,911,912	7,096,500,055	40,497,138,318
1979	5,078,861,692	2,088,478	20,287,300	6,632	1,515,347,950	6,616,592,052	34,935,503,964	9,273,278,309	49,770,416,627
1980	4,204,640,257	2,291,433	19,062,498	—	2,136,663,425	6,362,657,613	41,298,161,527	13,055,515,832	62,825,932,459
1981	6,602,665,712	2,250,300	22,342,953(e)	—	3,288,550,224	9,915,809,189	51,213,970,716	20,199,823,201	83,025,755,660
1982	3,987,490,009	2,393,759	20,061,651	—	3,814,871,635	7,824,817,054	59,038,787,770	22,573,099,138	105,598,854,798
1983	5,749,016,369	4,463,658	32,267,348	—	3,375,688,165	9,161,435,540	68,200,223,310	21,033,511,310	126,632,366,005
TOTAL All States	47,092,176,403	43,145,861	334,741,273	1,423,258	20,701,625,768	68,173,112,563	68,200,223,310	126,632,366,005	126,632,366,005

(e) Estimated by U.S.G.S.

Source: U.S. Department of the Interior, U.S. Geological Survey.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE	TOTAL AMOUNT OF ALL BIDS RECEIVED	TOTAL BONUS
10/13/54	LA.	$ 302,924,834	$ 116,378,476
11/9/54	TEX.	73,801,896	23,357,029
TOTAL		376,726,730	139,735,505
7/12/55	TEX.	9,027,610	8,437,462
7/12/55	LA.	314,212,441	100,091,264
TOTAL		323,240,051	108,528,726
5/26/59	FLA.	1,711,872	1,711,872
8/11/59	LA.	174,411,628	88,035,120
TOTAL		176,123,500	89,746,992
2/24/60	TEX.	56,400,897	35,732,031
2/24/60	LA.	518,774,752	246,909,784
TOTAL		575,175,649	282,641,815
3/13/62	LA.	314,218,540	177,260,305
3/16/62	TEX.	557,720	557,720
3/16/62	LA.	604,799,998	267,775,677
10/9/62	LA.	66,265,290	43,887,359
TOTAL		985,841,548	489,481,061
5/14/63	CAL.	13,989,953	12,807,587
4/28/64	LA.	93,850,051	60,340,626
10/1/64	ORE.	43,049,543	27,768,772
10/1/64	WASH.	10,530,210	7,764,928
TOTAL		147,429,804	95,874,326
3/29/66	LA.	275,384,739	88,845,963
10/18/66	LA.	185,214,816	99,164,930
12/15/66	CAL.	89,937,020	21,189,000
TOTAL		550,536,575	209,199,893
6/13/67	LA.	1,627,749,269	510,079,178
2/6/68	CAL.	1,293,601,113	602,719,262
5/21/68	TEX.	1,620,393,212	593,899,046
11/19/68	LA.	398,430,736	149,868,789
TOTAL		3,312,425,061	1,346,487,097
1/14/69	LA.	71,036,938	44,037,339
12/16/69	LA.	230,460,743	66,908,196
TOTAL		301,497,681	110,945,535

Source: U.S. Department of the Interior, Bureau of Land Management

Section XI
Table 11a

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS
7/21/70	LA.	$ 163,451,158	$ 97,769,013
12/15/70	LA.	2,877,429,559	846,784,660
TOTAL		3,040,880,717	944,553,673
11/4/71	LA.	172,735,981	96,304,523
9/12/72	LA.	1,599,155,464	585,827,925
12/19/72	LA.	6,191,018,227	1,665,519,631
TOTAL		7,962,909,672	2,347,652,079
6/19/73	TEX.-LA.	6,248,160,989	1,591,397,380
12/20/73	MISS., LA., FLA.	3,404,892,969	1,491,065,231
TOTAL		9,653,053,958	3,082,462,611
3/28/74	LA.	6,474,003,574	2,092,510,854
5/29/74	TEX.	3,354,292,556	1,471,851,831
7/30/74	LA.-TEX.	88,799,354	30,236,800
10/16/74	LA.	2,514,518,419	1,427,242,455
10/16/74	LA.ROYALTY	7,238,500	1,018,875
TOTAL		12,438,852,403	5,022,860,815
2/04/75	Texas	$ 484,721,874	$ 274,690,955
5/28/75	La.-Tex.	402,752,335	232,916,050
7/29/75	La.-Tex.	317,001,333	163,214,006
12/11/75	S. Cal.	901,960,364	417,312,141
TOTAL		2,106,435,906	1,088,133,152
2/18/76	Fla., La., Tx.	428,003,629	175,976,493
4/13/76	Alaska	1,732,170,868	559,836,587
8/17/76	MAL(1)	3,153,411,802	1,127,936,425
11/16/76	La.-Tx.	833,015,950	379,148,962
TOTAL		6,146,602,249	2,242,898,467
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432
10/27/77	Alaska	643,559,393	388,488,081
	(Royalty)	33,516,288	9,983,232
TOTAL		3,605,166,895	1,568,564,745
3/28/78	S. Al	150,927,700	100,743,443
4/25/78	La.-Tx.	1,559,345,259	733,656,893
10/31/78	Al., Fla., Ms.	87,592,568	61 176,730
12/19/78	La.-Tx.	2,355,263,307	871,464,998
TOTAL		4,153,128,834	1,767,042,064

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(1) Middle Atlantic

Source: U.S. Department of the Interior, Minerals Management Service.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS
2/28/79	MAL(1)	$ 66,005,881	$ 40,001,631
6/29/79	Ca.	994,683,700	572,825,418
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022
11/27/79	La.-Tx.	4,683,195,907	1,913,337,938
12/11/79	Ak.	945,445,102	488,691,138
12/18/79	NA(2)	1,270,789,889	816,516,546
TOTAL		11,294,111,099	5,078,861,693
9/30/80	La.	7,109,464,692	2,676,927,673
10/21/80	Ak.	197,417,470	109,751,073
11/18/80	Tx.	3,500,570,271	1,417,961,511
TOTAL		10,807,452,033	4,204,640,257
5/28/81	Ca.	4,885,810,689	2,038,566,639
6/30/81(6)	Ak.	5,582,362	170,496
7/21/81	GOM(4)	5,227,548,535	2,649,628,752
8/04/81	So. Atl.	561,050,365	342,766,174
9/29/81	Cook In.	4,697,309	4,405,899
10/20/81	GOM(4)	2,402,400,552	1,243,468,752
12/08/81	MAL	578,952,000	323,659,000
TOTAL		13,666,041,812	6,602,665,712
2/09/82	GOM	2,683,699,843	1,193,654,719
6/11/82	Ca.	210,486,278	117,875,281
8/05/82	Atl.,Ca.,Ak.	14,439,195	11,149,450
10/13/82	Ak.	4,589,972,518	2,055,632,336
11/17/82	GOM	1,185,091,610	609,178,223
TOTAL		8,683,689,444	3,987,490,009
3/08/83	GOM	48,755,129	37,570,900
3/15/83	Ak.	371,803,984	317,873,372
4/12/83	Ak.	547,731,283	426,458,830
4/26/83	MAL	86,822,680	68,410,240
5/25/83	GOM	4,582,847,288	3,367,606,134
7/26/83	SAL	14,562,040	13,362,040
8/24/83	GOM	2,350,359,669	1,501,712,517
11/30/83	C.Ca.	24,045,646	16,022,336
TOTAL		8,026,927,719	5,749,016,369
1/05/84	EGOM	500,261,361	310,586,261
4/17/84	Ak.Nav.	1.148,701,653	516,317,331
4/24/84	CGOM	2,126,776,904	1,323,036,649
7/18/84	WGOM	1,263,576,675	844,850,488
8/22/84	Ak-Diap.	1,365,968,674	866,860,327
TOTAL		6,405,285,267	3,861,651,056

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(1) Middle Atlantic
(2) North Atlantic
(4) Gulf of Mexico
(6) RESALE

Source: U.S. Department of the Interior, Minerals Management Service.

Section XI
Table 12

UNITED STATES OFFSHORE PLATFORMS AND OTHER STRUCTURES(1)

as of December 31, 1983

	Federal Waters	State Waters	Total
Louisiana	2,800	800	3,600
Texas	256	200	456
California	15	15	30
Alaska	3	14	
TOTALS	3,074	1,029	4,103

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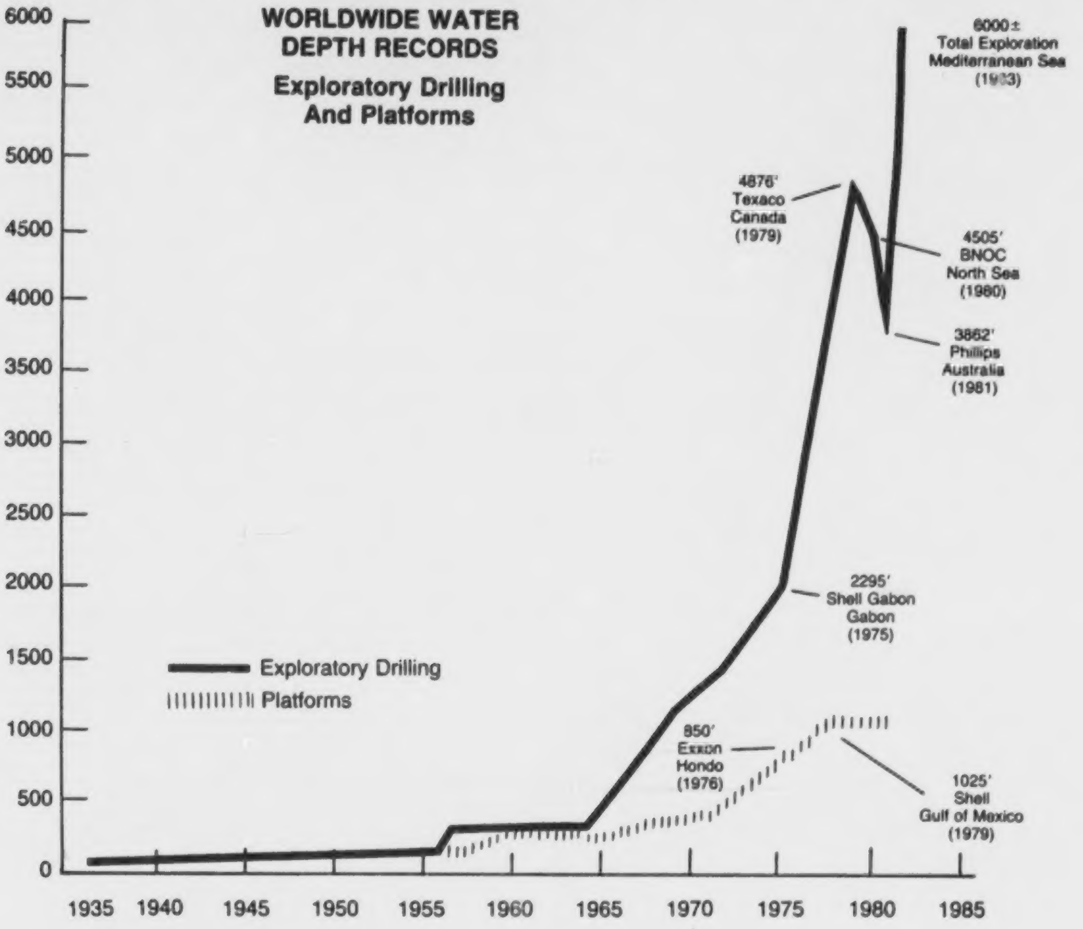
(1) Other structures includes well guards, caissons, and artificial islands.

Source: U.S. Department of Interior, MMS, Federal Offshore Statistics

Section XI
Table 13



WORLDWIDE WATER DEPTH RECORDS
Exploratory Drilling And Platforms

SOURCE: Offshore Magazine, June 20, 1982

EIGHT-YEAR OCS BLOWOUT EXPERIENCE, 1971-82.

Type	No.	Pollution	Fatalities Injuries	Other Major Damage
Explor. Drig.	25	None (gas only)		Loss of 2 jackup rigs
Dev. Drig.	21	None (all gas)	4 minor injuries	Loss of 2 platforms
Prod./Comp/WO	31	791 bbls.	None	1 platform destroyed, 1 badly damaged
Total	77			

Source: U.S. Department of Interior, Federal Offshore Statistics, December 1983

OIL SPILLS OF 50 BARRELS OR MORE IN FEDERAL WATERS
1970-1983

Year	Gulf of Mexico: No. Spills	Gulf of Mexico: Bbls. Spilled	Pacific: No. Spills	* Pacific: Bbls. Spilled
1970	7	84,323	0	—
1971	11	1,285	0	—
1972	3	4,450	0	10,235
1973	4	22,175	0	1,825
1974	8	22,721	0	1,460
1975	2	266	0	1,460
1976	3	4,714	0	1,458
1977	4	700	0	1,458
1978	2	1,239	0	1,456
1979	5	2,100	0	1,456
1980	5	2,093	0	1,456
1981	4	5,294	0	1,456
1982	4	942	0	1,456
1983	5	591	0	912
TOTAL	67	152,893	0	26,178

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* This column shows estimated seepage from the Santa Barbara blowout of January 28, 1969. Seepage in the 10 days following the blowout has been variously estimated at 10,000 to 71,500 barrels, but totals above do not include the first 10 days. The figure for 1972 includes seepage between February 7, 1969 and December 31,1972.

Source: Gulf of Mexico Regional OCS Office and Pacific Regional OCS Office.

Section XI
Table 16

HISTORICAL DATA ON LEASING
CONTINENTAL SEABEDS ADJACENT TO THE UNITED STATES
(THOUSANDS OF SQUARE STATUTE MILES)

Region	State Lands(1)	OCS "Shelf" (Between State Limit and 200 Meter Depth)	Continental Slope (Between 200 and 2500 Meter Depths)	Total OCS
Hawaii	--	0.4(2)	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5 559,040,000 Ac.	478.7 306,368,000 Ac.	1,352.2 865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
TOTAL FEDERAL OCS ACREAGE EVER OFFERED FOR LEASE THROUGH 8/22/84	329,472,769	58.9	38.1
TOTAL FEDERAL OCS LEASED THROUGH 8/22/84	37,147,323	6.6	4.3
TOTAL FEDERAL OCS CURRENTLY UNDER LEASE 12/31/83(3)	18,500,000	3.3	2.1

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(1) Areas within three nautical miles of coastline, except for Texas and Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.

(2) Includes state areas.

(3) Approximate acreage figure is used because of constant company relinquishments of leases--approximately 200 leases relinquished each year.

Source: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

Section XI
Table 17

BASIN RANKING
5-YEAR OCS OIL AND GAS LEASING PROGRAM

	Resource Potential		Interest in Exploration
	Industry	Geological Survey	Industry
1.	Central & West Gulf	Central & West Gulf	Central & West Gulf
2.	Beaufort Sea	Chukchi	Santa Barbara
3.	Santa Barbara	Beaufort	Beaufort Sea
4.	Mid-Atlantic	Mid-Atlantic	Bristol Basin
5.	St. George Basin	St. George Basin	North Atlantic
6.	Bristol Basin	Santa Barbara	Mid-Atlantic
7.	Southern California	Eastern Gulf of Alaska	Central & North California
8.	North Atlantic	North Atlantic	Southern California
9.	Norton Basin	Cook Inlet	St. George
10.	Chukchi Sea	Southern California	Norton
11.	Navarin Basin	Eastern Gulf of Mexico	Eastern Gulf
12.	Central & Northern California	Bristol Bay Basin	Navarin
13.	Blake Plateau	Norton	Cook Inlet
14.	Hope Basin	Navarin	Hope Basin
15.	Eastern Gulf of Mexico	South Atlantic	Blake Plateau
16.	Cook Inlet	Northern California	Gulf of Alaska
17.	Gulf of Alaska	Blake Plateau	Chukchi Sea
18.	South Atlantic	Kodiak	South Atlantic
19.	Kodiak	Hope	Washington-Oregon
20.	Washington-Oregon	Washington-Oregon	Florida Straits
21.	Southern Aleutian	Aleutian Shelf	Kodiak Shelf
22.	Florida Straits	Florida Straits	South Aleutian

Source: Department of Interior; March 9, 1979; Secretarial Issue Document, 5-Year Lease Schedule.

BASIC PETROLEUM DATA BOOK

SECTION XII. TRANSPORTATION

Table 1. U.S. Gas Utility Industry Miles of Pipeline and Main by Type

Table 2. U.S. Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)

Table 3. World Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)

Table 4. Age Distribution of World Tanker Fleet by Major Flag of Registry

Table 5. Spills of Oil and Other Substances

Table 6. Total and Average Consumption of Motor Fuel by U.S. Motor Vehicles

Table 7. Total and Average Travel by U.S. Motor Vehicles

Table 8. U.S. Car Sales by Market-Class Comparisons

Section XII
Table 1

U.S. GAS UTILITY INDUSTRY
MILES OF PIPELINE AND MAIN, BY TYPE(1)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1947	27.1	88.0	127.8	242.9
1948	29.2	92.0	138.2	259.4
1949	30.9	98.3	152.3	281.5
1950	32.8	113.1	241.6	387.5
1951	34.6	119.1	252.9	406.6
1952	38.4	123.4	263.5	425.3
1953	41.5	130.4	274.5	446.4
1954	43.8	139.0	287.7	470.5
1955	45.7	145.9	305.1	496.7
1956	47.6	153.8	323.8	525.2
1957	50.0	160.1	338.7	548.8
1958	52.0	165.4	354.1	571.5
1959(2)	54.1	174.3	371.4	599.8
1960(3)	55.8	183.7	391.4	630.9
1961	56.7	191.9	410.4	659.0
1962	58.7	196.4	428.1	683.2
1963	60.7	200.9	448.3	709.9
1964	61.0	205.4	469.8	736.2
1965	61.7	211.3	494.5	767.5
1966	63.0	217.0	519.6	799.6
1967	63.7	225.4	539.2	828.3
1968	64.4	234.5	562.7	861.6
1969	64.9	248.1	578.6	891.6
1970	66.3	252.2	594.8	913.3
1971	66.2	254.8	610.4	931.4
1972	66.9	258.1	623.1	948.1
1973	65.9	263.1	633.8	962.9
1974	66.4	262.2	645.6	974.1
1975	68.5	262.6	648.2	979.3
1976	70.3	258.2	659.1	987.7
1977	71.5	260.5	666.9	998.9
1978	74.9	260.6	677.5	1,013.8
1979	77.8	263.5	688.5	1,029.8
1980	83.2	266.9	700.1	1,050.2
1981	86.2	269.7	708.3	1,064.2
1982	90.5	271.7	720.9	1,083.1
1983	91.9	273.5	729.7	1,095.1

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(1) Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.
(2) These figures and those for subsequent years include Hawaii.
(3) These figures and those for subsequent years include Alaska.

SOURCE: American Gas Association, Gas Facts

Section XII
Table 2

U.S. TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

Year [1]	ACTUAL FLEET Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1947	951	8,784,894	14,035,000	13.86	800.5
Oct. 1, 1947	744	6,995,223	11,171,400	14.07	646.4
April 1, 1948	621	5,878,786	9,395,500	14.0	541.9
Jan. 1, 1949	593	5,656,497	9,016,200	14.1	524.2
Sept. 1, 1949	578	5,439,009	8,639,800	14.4	513.2
Sept. 1, 1950	559	5,322,698	8,460,700	14.5	505.1
April 1, 1951	560	5,363,699	8,520,800	14.6	510.0
Oct. 1, 1952	550	5,284,400	8,446,400	14.6	508.3
1953	550	5,475,800	8,639,800	14.8	525.3
1954	525	5,376,500	8,446,200	15.0	521.7
1955	490	5,094,900	7,989,500	15.1	497.4
1956	477	5,040,700	7,892,700	15.2	493.4
1957	470	5,097,400	7,959,900	15.4	503.1
1958	474	5,316,100	8,309,200	15.5	529.5
1959	485	5,593,600	8,766,300	15.6	563.0
1960	478	5,664,000	8,894,600	15.7	575.0
1961	469	5,751,400	9,085,300	15.8	590.1
1962	456	5,726,900	9,045,300	15.9	589.8
1963	440	5,631,000	8,912,600	15.9	583.5
1964	422	5,553,400	8,816,300	16.0	579.3
1965	410	5,479,800	8,733,500	16.0	575.8
1966	387	5,343,700	8,549,900	16.1	566.3
1967	382	5,322,800	8,550,700	16.1	566.4
1968	380	5,337,300	8,655,700	16.1	574.6
1969	365	5,319,400	8,797,900	16.1	584.9
1970	350	5,305,800	8,911,000	16.2	593.4
1971	347	5,453,100	9,218,200	16.3	616.5
1972	328	5,411,300	9,253,300	16.4	621.0
1973	312	5,507,000	9,525,200	16.3	640.3
1974	306	5,798,068	10,236,221	16.4	689.9
1975	293	5,943,289	10,601,370	16.4	714.5
1976	290	6,357,974	11,565,138	16.4	779.3
1977	298	7,128,519	13,054,810	16.3	875.4
1978	316	8,075,188	14,613,837	16.3	908.8
1979	313	9,061,313	16,559,318	16.3	1,113.3

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(1) Figures as of December 31; other figures as of date indicated.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976
Sun Transport Inc., Analysis of World Tank Ship Fleet, 1977-1979

WORLD TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

Year (1)	ACTUAL FLEET Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1947	1,925	15,692,962	24,278,900	12.87	1,285.1
Oct. 1, 1947	1,868	15,286,141	23,585,800	13.0	1,271.4
April 1, 1948	1,863	15,364,543	23,692,400	12.9	1,264.3
Jan. 1, 1949	1,872	15,459,372	23,815,800	12.1	1,274.4
Sept. 1, 1949	1,955	16,249,603	24,932,400	13.2	1,352.3
Sept. 1, 1950	2,056	17,567,202	26,957,200	13.3	1,469.7
April 1, 1951	2,131	18,453,538	28,255,100	13.3	1,544.1
Oct. 1, 1952	2,292	20,417,100	31,318,300	13.4	1,726.8
1953	2,502	23,473,900	35,732,300	13.6	2,003.5
1954	2,602	25,733,900	39,137,300	13.9	2,244.0
1955	2,681	27,338,600	41,623,100	14.0	2,398.1
1956	1,778	29,455,500	44,882,600	14.2	2,614.2
1957	2,954	33,046,800	50,424,800	14.4	2,988.2
1958	3,146	37,020,100	56,640,700	14.6	3,403.3
1959	3,276	40,831,500	62,657,800	14.8	3,826.1
1960	3,264	42,801,300	65,780,400	15.1	4,076.0
1961	3,250	44,701,000	68,859,400	15.2	4,304.8
1962	3,259	46,630,100	71,995,700	15.3	4,542.9
1963	3,279	49,168,600	76,179,500	15.4	4,841.3
1964	3,359	54,468,900	85,125,700	15.6	5,455.3
1965	3,436	59,158,200	93,171,900	15.7	5,984.4
1966	3,524	64,787,600	102,908,800	15.7	6,641.4
1967	3,613	69,965,500	112,366,200	15.7	7,274.6
1968	3,775	78,169,730	128,128,100	15.8	8,311.9
1969	3,893	86,821,100	146,029,100	15.8	9,461.5
1970	4,002	97,599,779	167,940,200	15.8	10,924.9
1971	4,207	111,681,295	193,891,100	15.8	12,577.0
1972	4,342	124,431,430	221,204,200	15.8	14,340.5
1973	4,572	142,413,985	256,821,730	15.8	16,634.2
1974	4,892	165,723,032	302,276,779	15.7	19,542.5
1975	5,112	188,212,834	348,586,400	15.7	22,547.7
1976	5,140	203,938,871	382,533,975	15.7	24,762.9
1977	5,013	206,348,687	390,165,427	15.7	25,249.8
1978	4,731	202,581,402	386,123,276	15.7	24,984.4
1979	4,800	205,823,484	390,206,275	15.7	25,257.7

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(1) Figures as of December 31; other figures as of date indicated.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976
Sun Transport Inc., Analysis of World Tank Ship Fleet, 1977-1979

Section XII
Table 4

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY[(1)]

(As of December 31, 1979)

Year of Construction	UNITED STATES		LIBERIA		UNITED KINGDOM		JAPAN		NORWAY		GREECE		FRANCE		PANAMA	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Before 1955	110	2,564,988	12	263,014	6	126,106	7	128,688	1	17,281	19	271,416	1	18,471	17	442,559
1955	6	184,687	3	116,360	3	63,162	0	0	0	0	6	105,093	0	0	0	0
1956	6	185,697	4	104,954	0	0	0	0	2	41,420	14	316,685	0	0	4	87,646
1957	10	333,468	7	231,313	1	8,959	1	3,677	1	19,706	7	169,451	0	0	2	61,884
1958	13	416,145	11	449,190	6	130,866	1	44,673	1	10,679	22	488,403	0	0	11	298,137
1959	15	549,097	18	970,876	6	131,034	2	63,951	3	59,759	20	508,183	0	0	13	473,088
1960	9	364,774	12	367,787	7	161,376	0	0	1	19,713	18	550,710	3	75,215	9	272,421
1961	7	310,691	19	680,674	7	248,409	2	54,805	3	125,999	9	283,683	3	112,088	5	174,921
1962	4	225,430	12	445,814	7	258,093	4	276,350	3	63,597	12	442,080	2	9,370	7	231,931
1963	5	201,523	17	1,119,892	7	276,645	1	74,259	3	84,963	15	861,644	2	91,344	6	140,880
1964	5	196,409	43	2,705,875	11	435,930	5	360,103	1	45,975	19	1,332,118	0	0	7	471,561
1965	2	95,499	44	2,615,585	13	477,689	10	637,051	1	20,791	25	1,706,697	3	92,727	9	557,841
1966	1	37,884	37	3,117,685	5	228,716	9	667,449	5	317,953	17	1,243,893	2	147,164	10	637,904
1967	1	94,518	40	3,377,269	8	517,065	12	906,582	10	462,106	23	1,927,749	2	37,315	5	379,959
1968	3	113,866	33	3,654,003	16	819,392	10	901,871	12	735,795	13	1,421,729	5	544,350	20	854,949
1969	9	420,703	35	4,570,172	11	1,224,381	20	2,679,922	12	1,368,931	14	2,408,120	7	825,955	11	175,739
1970	11	568,847	56	8,529,683	18	2,315,488	13	2,004,920	17	1,889,124	16	1,948,995	4	702,546	1	10,408
1971	8	473,420	78	10,299,128	21	2,108,182	25	3,593,584	24	2,909,981	14	1,178,692	14	2,257,040	5	262,745
1972	7	451,733	59	9,906,735	30	2,398,922	33	5,870,899	13	1,761,310	16	1,911,302	7	900,340	11	1,614,325
1973	8	777,861	68	12,118,784	31	2,980,141	47	5,946,034	23	4,422,034	13	1,075,055	12	2,171,232	8	462,065
1974	10	851,690	97	16,281,390	31	4,778,593	37	3,512,975	27	3,437,932	9	841,709	13	2,901,466	12	1,549,355
1975	13	927,970	117	18,510,541	34	4,417,194	33	4,105,567	34	4,916,093	2	162,390	7	1,162,281	14	1,343,940
1976	12	1,170,299	77	12,085,820	15	2,363,920	38	4,441,803	34	3,846,425	10	1,541,028	13	2,923,019	17	1,469,025
1977	15	1,620,099	41	6,179,878	11	1,090,012	23	827,266	18	1,550,086	3	525,249	6	957,448	8	1,061,674
1978	12	1,463,646	22	1,857,941	10	1,413,655	31	428,506	11	969,707	1	32,389	0	0	3	207,587
1979	11	1,958,374	22	1,476,313	9	522,296	50	1,194,154	13	476,950	2	167,717	1	554,000	5	56,026
Total	313	16,559,318	984	122,036,676	324	29,496,226	414	38,725,069	273	29,574,310	339	23,422,180	107	16,483,371	220	13,298,570
Average Age	11 yrs. 3 mos.		7 yrs. 4 mos.		7 yrs. 1 mo.		7 yrs. 1 mo.		6 yrs. 3 mos.		11 yrs. 6 mos.		6 yrs. 4 mos.		9 yrs. 7 mos.	

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(1) Ocean-going vessels 2,000 gross tons and over.

Source: Sun Transport, Inc., Analysis of World Tank Ship Fleet

Section XII
Table 4a

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY(1)
(As of December 31, 1979)

Year of Construction	ITALY		SWEDEN		U.S.S.R.		WEST GERMANY		SPAIN		SINGAPORE		ALL OTHERS		TOTAL	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Before 1955	17	253,673	0	0	12	133,791	0	0	2	16,465	4	61,085	79	1,131,569	287	5,429,086
1955	4	59,790	0	0	10	103,263	0	0	0	0	1	5,325	12	164,661	45	802,341
1956	4	64,054	0	0	13	132,941	0	0	0	0	3	53,583	11	195,110	61	1,182,090
1957	6	128,747	0	0	13	126,615	0	0	0	0	2	42,122	14	225,765	64	1,351,707
1958	8	156,843	0	0	8	50,768	0	0	3	27,650	5	115,916	17	347,729	106	2,536,999
1959	4	81,244	0	0	14	151,755	0	0	2	28,810	3	102,158	23	604,936	123	3,724,891
1960	5	182,911	0	0	17	319,978	0	0	6	88,503	1	20,264	35	944,615	123	3,368,267
1961	6	191,483	0	0	11	155,249	0	0	2	43,597	0	0	22	562,829	96	2,944,428
1962	1	38,594	1	7,291	18	306,530	1	54,142	4	89,581	2	109,421	24	675,086	102	3,233,310
1963	5	259,774	0	0	19	401,045	1	48,800	2	18,710	1	44,066	16	684,269	100	4,307,814
1964	2	52,898	0	0	27	814,080	0	0	0	0	1	53,342	21	803,505	142	7,271,796
1965	4	59,906	2	7,978	24	564,950	0	0	2	59,713	2	8,080	30	1,287,265	171	8,191,772
1966	4	250,153	1	121,185	28	601,009	1	65,499	0	0	3	162,471	35	1,594,501	158	9,193,466
1967	2	99,380	1	3,400	19	240,685	2	217,809	3	188,450	0	0	39	1,353,498	167	9,805,785
1968	6	354,970	0	0	16	237,086	3	421,674	4	204,048	1	3,397	39	2,234,075	181	12,501,205
1969	7	249,641	6	367,207	24	262,114	1	257,995	6	336,175	1	75,573	35	2,310,477	199	17,533,105
1970	8	823,623	3	26,604	26	275,648	2	221,713	6	261,297	0	0	30	2,939,636	211	22,518,532
1971	5	634,772	0	0	13	102,950	1	2,591	4	420,764	5	244,329	22	1,871,173	239	26,359,351
1972	8	1,094,876	3	518,320	14	93,342	1	5,702	4	818,344	3	207,544	24	974,059	233	28,527,753
1973	16	1,411,201	10	642,717	16	110,593	3	317,158	6	568,871	2	188,887	54	4,306,806	317	37,499,439
1974	13	1,616,840	4	504,203	5	30,769	13	2,148,098	6	738,787	12	1,023,726	75	6,185,734	364	46,403,267
1975	18	1,601,067	5	749,239	19	681,903	7	633,729	7	1,033,439	21	1,768,934	74	6,525,784	405	48,540,071
1976	8	1,533,420	7	1,333,566	21	546,587	10	1,522,783	9	1,163,379	15	1,364,351	71	6,076,414	357	43,381,839
1977	6	649,917	4	574,565	16	372,342	2	12,811	12	2,292,617	1	96,531	50	4,813,669	216	22,624,164
1978	6	922,144	1	498,995	20	730,336	1	4,000	7	895,958	0	0	36	1,617,006	161	11,041,870
1979	1	10,250	7	507,900	16	459,173	0	0	4	74,469	3	161,600	28	2,312,705	172	9,931,927
Total	174	12,782,171	55	5,863,170	439	8,005,502	49	5,934,504	101	9,369,627	92	5,912,705	916	52,742,876	4,800	390,206,275
Average Age	7 yrs. 7 mos.		4 yrs. 7 mos.		10 yrs. 8 mos.		6 yrs. 3 mos.		5 yrs. 5 mos.		6 yrs. 7 mos.		7 yrs 9 mos.		7 yrs. 8 mos.	

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(1) Ocean-going vessels 2,000 gross tons and over.

Source: Sun Transport, Inc., Analysis of World Tank Ship Fleet

SOURCES OF OIL SPILLS AND OTHER SUBSTANCES
1980
(GALLONS)

SOURCE	OIL		HAZARDOUS		OTHER		TOTAL	
	NO.	VOLUME	NO.	VOLUME	NO.	VOLUME	NO.	VOLUME
VESSELS								
Tank Ships	499	1,471,906	6	527	13	28,812	518	1,501,245
Tank Barges	751	1,596,076	22	33,999	28	1,767	801	1,631,845
Dry Cargo Barges	22	365	-	-	4	4,100	26	4,465
Dry Cargo Ships	269	39,211	1	5	15	630	285	38,846
Combatants	120	22,071	-	-	2	1	122	22,072
Other	1,057	174,672	3	2,010	57	927	1,117	177,609
TOTAL	2,718	3,304,304	32	36,541	119	36,237	2,869	3,377,082
LAND VEHICLES								
Rail	31	66,485	14	17,095	9	50,171	54	133,751
Highway	156	102,161	8	2,083	12	8,090	176	112,334
Other	43	3,150	-	-	4	8	47	3,158
TOTAL	230	171,796	22	19,178	25	58,269	277	249,243
NON-TRANSPORT, ON/OFFSHORE								
Refinery	76	110,054	5	33,110	6	43	87	143,207
Bulk Storage	223	362,005	3	368,510	10	9,326	236	739,841
Onshore Production	105	101,024	-	-	9	4,017	114	105,041
Offshore Production	574	115,248	-	-	28	2,113	602	117,361
Other	479	167,526	37	48,501	70	50,044	586	266,071
TOTAL	1,457	855,857	45	450,121	123	65,543	1,625	1,371,521
PIPELINES	475	1,719,420	4	46,503	10	860	489	1,766,783
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	88	19,850	-	-	-	-	88	19,850
Bulk Transfer	286	759,079	10	19,370	14	298	310	781,435
Non-Bulk Transfer	36	802	1	40,000	4	398	41	41,200
Other	109	16,105	2	210	7	7,127	118	23,442
TOTAL	519	795,836	13	59,580	25	10,511	557	865,927
LAND FACILITIES	110	60,773	-	-	8	4,783	118	65,556
MISC/UNKNOWN	2,328	424,713	17	13,542	1,298	84,203	3,643	522,458
GRAND TOTAL	7,837	7,332,699	133	625,465	1,608	260,406	9,578	8,218,570

Source: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1979 and 1980

Section XII
Table 6

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1947	30,872	20,086	651	6,650	7,243	1,089	176	778	4,420
1948	33,394	21,369	640	7,379	8,189	1,110	184	780	4,239
1949(3)	36,453	22,957	630	8,028	8,666	1,079	209	711	3,402
1950(3)	40,334	25,238	626	8,604	9,526	1,107	224	782	3,491
1951(3)	42,682	26,990	632	9,001	10,138	1,132	230	836	3,635
1952(3)	43,818	28,729	656	9,207	10,844	1,178	240	890	3,708
1953(3)	46,460	30,249	654	9,576	11,418	1,192	244	937	3,840
1954	48,413	30,915	639	9,726	12,541	1,289	233	755	3,240
1955	52,092	33,548	644	10,413	13,308	1,278	255	771	3,024
1956	54,249	35,326	651	10,737	13,978	1,302	255	802	3,145
1957	56,375	36,769	652	10,961	14,271	1,302	264	825	3,125
1958	57,392	38,095	644	11,159	14,514	1,301	270	809	2,996
1959(4)	60,132	40,056	666	11,671	15,453	1,324	265	823	3,106
1960	62,258	41,169	661	11,945	15,882	1,330	272	827	3,040
1961	63,870	42,033	658	12,291	16,443	1,338	281	830	2,954
1962	66,638	43,771	657	12,809	17,089	1,334	288	837	2,906
1963	69,842	45,246	648	13,360	18,432	1,380	298	838	2,812
1964	72,969	47,567	652	14,013	19,470	1,389	305	864	2,833
1965	76,634	50,275	656	14,795	19,935	1,347	314	894	2,847
1966	80,106	53,312	666	15,517	20,415	1,316	324	896	2,765
1967	82,367	55,110	669	16,193	21,673	1,338	338	910	2,692
1968	85,793	58,524	682	16,995	23,482	1,382	352	932	2,648
1969	89,156	62,448	700	17,871	24,727	1,384	364	947	2,602
1970	92,095	65,784	714	18,748	25,600	1,365	379	944	2,491
1971	96,144	69,514	723	19,802	27,086	1,368	397	947	2,385
1972	100,658	73,463	730	21,239	30,718	1,446	407	881	2,165
1973	106,119	78,011	735	23,233	31,615	1,361	426	847	1,988
1974	109,823	74,217	676	24,630	31,226	1,268	447	858	1,919

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(1) Travel by motorcycles included with passenger cars.

(2) Includes commercial, school and non-revenue buses.

(3) Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953; Bureau of Public Roads data not available

(4) Includes Alaska and Hawaii beginning in 1959.

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data", Federal Highway Administration after 1969.
American Petroleum Institute

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1975	111,679	76,457	685	25,776	31,632	1,227	462	895	1,937
1976	115,170	78,847	685	27,779	35,890	1,292	478	964	2,015
1977	118,711	80,677	680	29,562	37,964	1,284	492	984	2,002
1978	121,717	83,775	688	31,703	40,271	1,270	500	1,021	2,041
1979	125,750	80,233	638	33,350	40,859	1,225	520	1,023	1,966
1980	127,448	73,375	603	33,637	40,150	1,194	529	1,076	2,034
1981	129,123	71,718	555	34,451	41,637	1,209	544	1,098	2,019
1982	129,441	69,730	539	35,253	42,534	1,207	559	1,120	2,003

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.

Source: Federal Highway Administration

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	300,440	9,732	14.95	66,203	9,955	9.14	4,251	24,153	5.46
1948	319,665	9,573	14.96	74,009	10,030	9.04	4,283	23,277	5.49
1949(3)	342,478	9,395	14.92	77,731	9,682	8.97	4,252	20,344	5.98
1950(3)	363,613	9,015	14.40	90,552	10,524	9.51	4,081	18,219	5.22
1951(3)	392,131	9,187	14.54	94,844	10,537	9.31	4,118	17,904	4.92
1952(3)	410,187	9,361	14.27	99,060	10,759	9.13	4,334	18,058	4.87
1953(3)	435,351	9,370	14.39	104,633	10,927	9.17	4,449	18,234	4.75
1954	450,605	9,308	14.57	105,844	10,833	8.44	4,408	18,918	5.84
1955	487,540	9,359	14.53	111,387	10,697	8.37	4,507	17,675	5.85
1956	507,138	9,348	14.36	116,100	10,813	8.31	4,605	18,059	5.74
1957	529,405	9,391	14.40	113,206	10,328	7.93	4,393	16,640	5.32
1958	544,873	9,494	14.30	115,470	10,348	7.96	4,310	15,963	5.33
1959(4)	572,976	9,529	14.30	123,154	10,552	7.97	4,348	16,408	5.28
1960	588,083	9,446	14.28	126,409	10,583	7.96	4,353	16,004	5.26
1961	604,557	9,465	14.38	128,582	10,461	7.82	4,396	15,644	5.30
1962	629,097	9,441	14.37	133,289	10,406	7.80	4,466	15,507	5.34
1963	645,371	9,240	14.26	155,569	11,644	8.44	4,483	15,044	5.35
1964	677,613	9,286	14.25	164,271	11,723	8.43	4,616	15,134	5.34
1965	711,594	9,286	14.15	171,436	11,587	8.60	4,782	15,229	5.35
1966	751,740	9,384	14.10	173,905	11,207	8.52	4,852	14,975	5.46
1967	774,203	9,399	14.05	182,456	11,268	8.42	4,894	14,479	5.38
1968	814,030	9,488	13.91	196,651	11,571	8.37	4,968	14,114	5.33
1969	858,858	9,633	13.75	206,680	11,565	8.36	5,037	13,838	5.32
1970	900,992	9,783	13.70	214,670	11,450	8.39	5,043	13,306	5.34
1971	954,155	9,924	13.73	227,037	11,465	8.38	5,097	12,807	5.38
1972	1,003,498	9,969	13.67	259,735	12,229	8.46	5,109	12,553	5.80
1973	1,036,455	9,767	13.29	267,147	11,499	8.45	4,960	11,643	5.86
1974	1,013,068	9,225	13.65	267,519	10,861	8.57	5,060	11,320	5.90

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.
(3) Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953; Bureau of Public Roads data not available
(4) Includes Alaska and Hawaii beginning in 1959.

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data." Federal Highway Administration after 1969
American Petroleum Institute

Section XII
Table 7a

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

Year	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1975	1,050,472	9,406	13.74	274,454	10,648	8.68	5,148	11,140	5.75
1976	1,098,147	9,535	13.93	307,957	11,086	8.58	5,761	12,045	5.98
1977	1,141,166	9,613	14.15	329,474	11,145	8.68	5,887	11,973	5.98
1978	1,194,287	9,812	14.26	347,909	10,974	8.64	6,072	12,143	5.95
1979	1,162,528	9,245	14.49	360,500	10,810	8.82	6,105	11,732	5.97
1980	1,129,887	8,865	15.32	384,570	11,433	9.58	6,400	12,103	5.95
1981	1,124,843	8,711	15.68	425,127	12,340	10.21	6,501	11,953	5.92
1982	1,148,883	8,876	16.48	436,959	12,395	10.27	6,639	11,872	5.93

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.

Source: Federal Highway Administration

U.S. CAR SALES BY MARKET-CLASS COMPARISONS

Year	Subcompact	Compact	Intermediate	Standard	Luxury	Import	Total Sales
1970	1.82	19.75	23.50	36.76	2.91	15.26	8,396,595
1971	7.42	15.79	20.84	37.07	3.66	15.22	10,234,027
1972	8.17	15.34	22.59	35.38	3.76	14.76	10,935,365
1973	10.74	16.77	23.37	29.80	3.94	15.83	11,427,478
1974	10.60	22.72	24.41	22.72	3.71	15.85	8,851,265
1975	12.26	22.92	23.85	17.94	4.74	18.29	8,627,883
1976	9.90	24.12	27.76	18.80	4.67	14.78	10,099,573
1977	8.52	21.16	26.40	20.37	5.00	18.55	11,178,554
1978	8.77	22.90	26.60	18.42	5.62	17.69	11,303,909
1979	12.86	20.89	23.79	15.14	5.47	21.85	10,641,099
1980	15.41	20.96	21.37	11.09	4.48	26.69	8,973,345
1981	17.11	20.22	20.40	10.16	4.86	27.25	8,531,531
1982	16.65	17.51	19.03	13.39	5.58	27.84	7,977,570
1983	12.65	16.75	26.17	9.97	8.50	25.96	9,177,777

Source: Automotive News, Market Data Book Issues
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BASIC PETROLEUM DATA BOOK

SECTION XIII. NATURAL GAS

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ESTIMATED PROVED WORLD RESERVES OF NATURAL GAS
ANNUALLY AS OF JANUARY 1
(Billions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations (1)	Total World
1967	289,333	43,450	64,550	397,333	215,070	158,155	32,450	88,582	891,590	150,000	1,041,590
1968	292,908	45,682	67,101	405,691	220,670	167,223	40,050	133,965	967,599	215,500	1,183,099
1969	287,350	47,666	62,900	397,916	223,775	168,345	52,724	141,176	983,936	343,000	1,326,936
1970	275,109	51,951	163,150	490,210	235,275	197,143	67,500	150,800	1,140,928	350,000	1,490,928
1971	290,746(1)	53,376	73,100	417,222	354,262	191,516	56,330	147,731	1,167,061	440,000	1,607,061
1972	278,806(1)	55,462	72,700	406,968	343,930	193,018	69,800	163,250	1,176,966	558,000	1,734,966
1973	266,085(1)	52,936	79,218	398,239	344,150	189,015	101,236	178,400	1,211,040	664,400	1,875,440
1974	249,950(1)	52,457	91,321	393,728	413,325	187,720	114,200	193,797	1,302,770	735,400	2,038,170
1975	237,132(1)	56,708	100,214	394,054	672,670	314,974	115,880	202,826	1,700,404	846,000	2,546,404
1976	228,200(1)	56,975	90,487	375,662	538,648	207,152	111,560	180,875	1,413,897	835,000	2,248,897
1977	216,026(1)	58,282	90,325	364,633	536,460	209,077	120,010	141,905	1,372,085	953,000	2,325,085
1978	208,878(1)	59,472	108,480	376,830	719,660	207,504	122,725	138,190	1,564,909	955,000	2,519,909
1979	200,302(1)	59,000	112,950	372,252	730,660	186,290	119,850	143,260	1,552,312	945,000	2,497,312
1980	194,917(1)	85,500	144,500	424,917	740,330	210,350	128,815	135,376	1,639,158	935,000	2,574,158
1981	199,021(1)	87,300	159,811	446,132	752,415	208,470	126,290	159,315	1,692,622	953,900	2,646,522
1982	201,730(1)	89,900	176,323	467,953	762,490	211,667	127,616	150,650	1,720,376	1,194,700	2,915,076
1983	201,512(1)	97,000	186,591	485,103	769,730	189,423	146,247	156,736	1,747,239	1,283,800	3,031,039
1984	200,247(1)	90,500	186,396	477,143	775,047	189,644	156,235	157,328	1,755,397	1,446,800	3,202,197
1985	198,000(1)	92,300	184,931	475,231	869,355	187,176	166,190	206,673	1,904,625	1,497,400	3,402,025

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(1) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available

Source: 1967-1980: United States-American Gas Association, Committee on Natural Gas Reserves
1981-1984: United States-Department of Energy
Rest of the World-The Oil & Gas Journal "Worldwide Report" issues
1985: Oil and Gas Journal, "Worldwide Report" issue

THE SUPPLY OF UNITED STATES NATURAL GAS
(Millions of cubic feet - 14.72 psia at 60° F.)

Year	Proved Reserves at Start of Year	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage[4]	Production During Year[1]	Proved Reserves at Year-end
1947	159,703,813	10,921,187	N.A.	5,559,235	165,025,765
1948	165,025,765	13,823,090	51,202	5,975,001	172,925,056
1949	172,925,056	12,605,615	82,146	6,211,124	179,401,693
1950	179,401,693	11,985,361	52,935	6,855,244	184,584,745
1951	184,584,745	15,965,808	132,030	7,923,673	192,785,910
1952	192,758,910	14,267,606	197,766	8,592,716	198,631,566
1953	198,631,566	20,341,933	513,529[2]	9,188,365	210,298,763
1954	210,298,763	9,547,074	90,408	9,375,314	210,560,931
1955	210,560,931	21,897,616	87,164	10,063,167	222,482,544
1956	222,482,544	24,716,115	133,241	10,848,685	236,483,215
1957	236,483,215	20,008,051	178,761	11,439,890	245,230,137
1958	245,230,137	18,896,724	57,582	11,422,651	252,761,792
1959	252,761,792	20,621,249	160,453	12,373,063	261,170,431
1960	261,170,431	13,893,978	281,273	13,019,356	262,326,326
1961	262,326,326	17,166,421	159,544	13,378,649	266,273,642
1962	266,273,642	19,483,958	159,231	13,637,973	272,278,858
1963	272,278,858	18,164,667	253,733	14,546,025	276,151,233
1964	276,151,233	20,252,139	195,110	15,347,028	281,251,454
1965	281,251,454	21,319,279	150,483	16,252,293	286,468,923
1966	286,468,923	20,220,432	134,523	17,491,073	289,332,805
1967	289,332,805	21,804,333	151,403	18,380,838	292,907,703
1968	292,907,703	13,697,008	118,568	19,373,427	287,349,852
1969	287,349,852	8,375,004	107,169	20,723,190	275,108,835
1970	275,108,835	37,196,359[3]	402,018	21,960,804	290,746,408[3]
1971	290,746,408[3]	9,825,421	310,301	22,076,512	278,805,618[3]
1972	278,805,618[3]	9,634,563	156,563	22,511,898	266,084,846[3]
1973	266,084,846[3]	6,825,049	-354,282	22,605,406	249,950,207[3]
1974	249,950,207[3]	8,679,184	-178,424	21,318,470	237,132,497[3]

N.A. Not Available

(1) Estimated.

(2) All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.

(3) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska, (discovered in 1968).

(4) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

Source: American Gas Association, Committee on Natural Gas reserves

THE SUPPLY OF UNITED STATES NATURAL GAS
(Millions of cubic feet - 14.72 psia at 60° F.)

Year	Proved Reserves at Start of Year(3)	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(4)	Production During Year(1)	Proved Reserves at Year-end(3)
1975	237,132,497	10,483,688	302,561	19,718,570	228,200,176
1976	228,200,176	7,555,468	-187,550	19,542,020	216,026,047
1977	216,026,074	11,851,924	446,930	19,447,050	208,877,878
1978	208,877,878	10,586,144	148,733	19,311,048	200,301,707
1979	200,301,707	14,285,947	239,323	19,910,353	194,916,624
1980	200,997,000	16,723,000	N.A.	18,699,000	199,021,000
1981	199,021,000	21,446,000	N.A.	18,737,000	201,730,000
1982	201,730,000	17,288,000	N.A.	17,506,000	201,512,000
1983	201,512,000	14,523,000	N.A.	15,788,000	200,247,000

N.A. Not Available

(1) Estimated.
(3) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska.
(4) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

Source: 1975-1979-American Gas Association, Committee on Natural Gas reserves
1980-1983-U.S. Department of Energy, Energy Information Administration

Section XIII
Table 3

The Reserves of U.S. Natural Gas Liquids
(Thousands of Barrels)

	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1947	3,163,219	251,538	160,782	3,253,975	20.2
1948	3,253,975	470,557	183,749	3,540,783	19.3
1949	3,540,783	386,776	198,547	3,729,012	18.8
1950	3,729,012	766,062	227,411	4,267,663	18.8
1951	4,267,663	723,991	267,052	4,724,602	17.7
1952	4,724,602	556,838	284,789	4,996,651	17.5
1953	4,996,651	743,969	302,698	5,437,922	18.0
1954	5,437,922	107,350	300,815	5,244,457	17.4
1955	5,244,457	514,508	320,400	5,438,565	17.0
1956	5,438,565	809,820	346,053	5,902,332	17.1
1957	5,902,332	137,392	352,364	5,687,360	16.1
1958	5,687,360	858,206	341,548	6,204,018	18.2
1959	6,204,018	703,444	385,154	6,522,308	16.9
1960	6,522,308	725,130	431,379	6,816,059	15.8
1961	6,816,059	694,686	461,649	7,049,096	15.3
1962	7,049,096	732,549	470,128	7,311,517	15.6
1963	7,311,517	878,120	515,659	7,673,978	14.9
1964	7,673,978	608,744	536,090	7,746,632	14.4
1965	7,746,632	832,312	555,410	8,023,534	14.4
1966	8,023,534	894,116	588,684	8,328,966	14.1
1967	8,328,966	929,758	644,493	8,614,231	13.4
1968	8,614,231	685,659	701,782	8,598,108	12.2
1969	8,598,108	281,028	735,962	8,143,174	11.1
1970	8,143,174	307,579	747,812	7,702,941	10.3
1971	7,702,941	347,720	746,434	7,304,227	9.8
1972	7,304,227	238,273	755,941	6,786,559	9.0
1973	6,786,559	408,979	740,831	6,454,707	8.7
1974	6,454,707	619,841	724,099	6,350,449	8.8
1975	6,350,449	618,504	701,123	6,267,830	8.9
1976	6,267,830	834,766	700,629	6,401,967	9.1
1977	6,401,967	291,171	698,773	5,994,365	8.6
1978	5,994,365	595,666	664,179	5,925,852	8.9
1979	5,925,852	389,805	660,334	5,655,323	8.6
1980(1)	6,615,000	844,000	731,000	6,728,000	9.1
1981	6,728,000	1,081,000	741,000	7,068,000	9.3
1982	7,068,000	874,000	721,000	7,221,000	9.9
1983	7,221,000	1,405,000	725,000	7,901,000	10.9

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(1) Figures beginning with 1980 are from the Department of Energy data, using a different methodology from prior data.

Source: American Gas Association through 1979.
Department of Energy beginning in 1980.

Section XIII
Table 4

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist[1] Nations	Total World
1950	6,282,060	71,692	260,008	6,613,760	0	0	55,420	33,177	6,702,357	N.A.	6,702,357
1951	7,457,359	83,970	201,379	7,742,708	0	0	72,699	52,024	7,867,431	255,268	8,122,669
1952	8,013,457	93,710	223,510	8,330,677	0	0	85,164	61,938	8,477,779	305,390	8,783,169
1953	8,396,916	106,735	255,044	8,758,695	0	149	99,644	100,353	8,958,841	503,559	9,462,400
1954	8,742,546	127,597	273,108	9,143,251	0	299	106,286	131,254	9,381,090	538,340	9,919,430
1955	9,405,351	150,772	356,150	9,912,273	4	456	82,348	189,805	10,184,886	524,883	10,709,769
1956	10,081,923	169,153	368,171	10,619,247	15,552	496	101,762	227,530	10,964,587	656,917	11,621,504
1957	10,680,258	220,007	458,629	11,358,894	25,578	351	114,243	251,798	11,750,864	926,155	12,677,019
1958	11,030,298	337,804	616,117	11,984,219	26,288	4,385	119,716	267,450	12,402,058	1,379,668	13,781,726
1959	12,046,115	417,335	713,974	13,177,424	44,520	14,423	133,309	346,906	13,716,582	1,688,023	15,404,605
1960	12,771,038	522,972	775,931	14,069,941	57,265	5,831	157,846	433,794	14,724,677	2,191,932	16,916,609
1961	13,254,025	655,738	864,075	14,773,838	172,065	20,405	170,671	502,222	15,639,201	2,748,402	18,387,603
1962	13,876,622	946,703	956,436	15,779,761	173,312	31,327	193,565	548,419	16,726,384	3,366,025	20,092,409
1963	14,666,559	1,111,478	702,457	16,480,494	149,155	15,956	135,181	559,969	17,340,755	3,678,193	21,018,948
1964	15,462,143	1,327,664	721,596	17,511,403	162,593	33,198	155,293	608,872	18,471,359	4,397,094	22,868,453
1965	16,039,753	1,442,448	779,949	18,262,150	171,219	67,863	168,306	671,057	19,340,595	5,139,565	24,480,160
1966	17,206,628	1,341,833	828,773	19,377,234	193,147	82,133	198,289	789,916	20,640,719	5,735,512	26,394,231
1967	18,171,325	1,471,725	883,481	20,526,531	229,334	84,968	215,309	1,018,634	22,074,776	6,322,996	28,397,772
1968	19,322,400	1,692,301	1,061,610	22,076,311	388,208	96,460	330,258	1,439,050	24,330,287	7,072,855	31,403,142
1969	20,698,240	1,977,838	1,143,290	23,819,368	441,702	113,802	431,095	2,009,701	26,815,668	7,569,402	34,385,070
1970	21,920,642	2,277,109	1,276,624	25,474,375	454,125	122,242	525,255	2,789,046	29,365,043	8,728,918	38,093,961
1971	22,493,012	2,499,024	1,362,648	26,354,684	697,997	522,631	559,808	3,580,676	31,715,796	9,472,600	41,188,396
1972	22,531,698	2,913,537	1,456,611	26,901,846	905,622	471,835	605,962	4,501,119	33,386,384	10,127,500	43,513,884
1973	22,647,549	3,119,461	1,615,801	27,382,811	1,276,853	585,820	775,942	5,147,986	35,169,412	10,958,376	46,127,788
1974	21,600,522	3,045,506	1,659,071	26,305,099	1,423,416	607,732	880,914	5,837,027	35,054,188	12,117,303	47,171,491

N.A. Not Available

Source: 1950-1967: U.S. Bureau of Mines, Minerals Yearbook, Annual
1968-1974: U.S. Bureau of Mines, World Natural Gas

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World
1975	20,108,661	3,075,693	1,735,060	24,919,414	1,436,210	670,402	938,365	5,966,659	33,931,050	13,276,275	47,207,325
1976	19,952,438	3,067,353	1,722,106	24,741,897	1,492,772	905,792	1,173,878	6,343,593	34,657,932	14,801,281	49,459,213
1977	20,025,463	3,230,672	1,865,734	25,121,869	1,506,982	919,464	1,329,016	6,502,502	35,379,833	14,720,257	50,100,090
1978	19,974,033	3,128,056	2,012,912	25,115,001	1,579,478	1,117,416	1,469,154	6,649,855	35,930,904	15,818,398	51,749,302
1979	20,471,260	3,646,500	2,610,000	26,727,760	1,624,700	1,027,900	1,827,900	6,866,800	38,075,060	19,591,400	57,666,460
1980	20,179,724	2,668,300	3,297,500	26,344,587	1,221,300	884,700	2,558,400	6,668,700	37,677,687	21,069,900	58,747,587
1981	19,955,823	2,623,000	3,227,000	26,027,701	1,542,000	1,947,000	2,765,000	5,906,000	39,187,701	19,210,000	58,397,701
1982	18,519,675	2,546,100	3,071,500	24,137,275	1,799,700	1,168,900	2,176,600	6,142,100	35,424,575	20,258,000	55,682,575
1983	16,822,144	2,414,100	3,340,500	22,576,744	1,633,000	1,143,800	2,187,700	6,383,400	33,924,644	21,383,000	55,307,644

Source: 1975–1978: U.S. Energy Information Administration, World Natural Gas, Annuals
1979–1983: U.S. Energy Information Administration, United States only; Rest of World, Oil and Gas Journal

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	Total Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared
1947	4,582,173	18,149	4,426,544	-	$274,709	86,643	96,316	127,807	1,067,938
1948	5,148,020	18,704	4,945,149	-	333,173	79,035	136,406	126,796	810,178
1949	5,419,736	20,054	5,195,484	-	344,034	106,368	172,051	138,515	853,884
1950	6,282,060	25,727	6,026,404	-	408,521	175,260	229,752	175,437	801,044
1951	7,457,359	24,163	7,102,562	-	542,964	209,428	347,690	192,372	793,186
1952	8,013,457	27,456	7,613,478	7,807	623,649	221,909	398,593	203,646	848,608
1953	8,396,916	28,322	7,979,338	9,225	774,966	246,802	404,838	240,445	810,276
1954	8,742,546	28,726	8,402,852	6,847	882,501	330,177	432,283	215,709	723,567
1955	9,405,351	31,029	9,070,343	10,888	978,357	437,251	505,185	246,933	773,639
1956	10,081,923	35,963	9,706,878	10,380	1,083,812	452,762	589,232	212,992	727,004
1957	10,680,258	41,655	10,279,775	37,941	1,201,759	480,981	672,377	205,373	809,148
1958	11,030,298	38,719	10,760,698	135,797	1,317,492	621,091	704,172	283,597	633,412
1959	12,046,115	18,413	11,819,638	133,990	1,556,800	668,743	787,485	223,312	571,048
1960	12,771,038	11,332	12,509,427	155,646	1,789,970	712,658	844,352	274,231	562,877
1961	13,182,029	10,689	13,010,654	217,671	1,996,241	694,258	839,083	233,532	523,533
1962	13,801,244	15,728	13,814,678	399,353	2,145,301	849,695	935,712	284,174	425,629
1963	14,666,559	16,865	14,560,953	430,997	2,328,030	911,741	1,041,802	362,677	383,408
1964	15,462,143	19,497	15,451,979	440,918	2,387,689	880,498	1,099,302	302,781	339,996
1965	16,039,753	26,132	16,033,189	456,394	2,494,542	959,865	1,077,980	318,711	319,143
1966	17,206,628	14,639	17,191,711	479,780	2,702,759	1,141,614	1,210,469	401,203	374,695
1967	18,171,325	81,614	18,172,894	564,226	2,898,741	1,132,534	1,317,363	296,214	489,877
1968	19,322,400	93,745	19,459,939	651,885	3,168,688	1,329,536	1,425,075	325,062	516,508
1969	20,698,240	51,304	20,922,800	726,951	3,455,615	1,379,488	1,498,988	331,587	525,750

Source: U.S. Bureau of Mines, Natural Gas Annuals

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	Total Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared
1970	21,920,642	69,813	22,045,799	820,780	$3,745,680	1,458,607	1,856,767	227,650	489,460
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	1,507,630	1,839,398	338,999	284,561
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	1,757,218	1,892,952	328,002	248,119
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	1,532,820	1,974,324	195,863	248,292
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	1,700,546	1,784,209	288,731	169,381
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	1,759,565	2,103,619	235,065	133,913
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	1,921,017	1,755,690	216,240	131,930
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	1,749,884	2,306,515	41,063	136,807
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	2,157,765	2,278,002	287,201	153,350
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	2,047,000	2,295,034	372,330	167,019
1980	20,179,724	48,731	19,877,293	984,767	32,043,704	1,909,902	1,896,284	639,559	125,451
1981	19,955,823	59,372	19,403,858	903,949	39,551,253	1,886,940	2,179,683	500,501	98,017
1982	18,519,675	51,728	18,001,055	933,336	45,496,765	2,093,644	2,399,355	474,731	93,365

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(1) Also includes changes in above ground storage and gas unaccounted for.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 6

U.S. IMPORTS OF NATURAL GAS BY SOURCE
(Billion cubic feet)

Year	Canada	Mexico	Algeria(3)	Total Imports	U.S. Natural Gas Consumption
1968	605	47	(2)	652	19,460
1969	680	47	(2)	727	20,923
1970	779(1)	41	3	823	22,046
1971	914(1)	21	3	938	22,677
1972	1,010(1)	8	2	1,020	23,009
1973	1,028(1)	2	3	1,033	22,966
1974	959	(2)	0	959	22,111
1975	948	0	5	953	20,410
1976	954	0	10	964	20,801
1977	997	2	11	1,011	19,521
1978	881	0	84	965	19,627
1979	1,001	0	252	1,253	20,241
1980	797	102	86	985	19,877
1981	762(1)	105	37	904	19,404
1982	783	95	55	933	18,001

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(1) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, 0.7 billion cubic feet in 1973, and 0.6 billion cubic feet in 1981.
(2) Less than one-half unit.
(3) Liquefied natural gas.

Source: U.S. Energy Information Administration, 1968-1977: World Natural Gas Annuals
1978-1981: U.S. Imports and Exports of Natural Gas
1982: Natural Gas Monthly

Section XIII
Table 7

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1975	Nation	1976
1. U.S.S.R.	810,000	1. U.S.S.R	800,000
2. Iran	330,000	2. Iran	329,500
3. United States	237,132	3. United States	228,200
4. Algeria	229,000	4. Algeria	126,000
5. United Arab Emirates(1)	200,000	5. Saudi Arabia	103,000
6. Netherlands	94,800	6. Netherlands	70,000
7. Canada	56,708	7. Canada	56,975
8. Saudi Arabia	55,000	8. United Kingdom	50,000
9. United Kingdom	50,000	9. Nigeria	44,300
10. Nigeria	45,500	10. Venezuela	42,000
11. Venezuela	43,000	11. Australia	32,500
12. Australia	38,000	12. Kuwait	31,800
13. Kuwait	32,000	13. Libya	26,300
14. Iraq	27,500	14. Norway	25,000
15. Libya	26,500	15. People's Republic of China	25,000
16. People's Republic of China	25,000	16. United Arab Emirates(1)	20,000
17. Norway	24,700	17. Pakistan	16,400
18. Brunei-Malaysia	22,000	18. Indonesia	15,000
19. Indonesia	15,000	19. Malaysia	15,000
20. Mexico	15,000	20. Bolivia	10,800
Total Free World	1,700,404	Total Free World	1,413,897
Total World	2,546,404	Total World	2,248,897

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(1) Prior to 1972 figures reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai and Sharjah which formed the United Arab Emirates.

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

Section XIII
Table 7a

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1977	Nation	1978
1. U.S.S.R.	918,000	1. U.S.S.R	920,000
2. Iran	330,000	2. Iran	500,000
3. United States	216,026	3. United States	208,878
4. Algeria	125,800	4. Algeria	125,000
5. Saudi Arabia	86,000	5. Saudi Arabia	85,000
6. Netherlands	61,900	6. Netherlands	60,000
7. Canada	58,282	7. Canada	58,000
8. Nigeria	44,000	8. Nigeria	43,000
9. Venezuela	40,700	9. Venezuela	41,000
10. Australia	32,300	10. Qatar	40,000
11. Kuwait	31,700	11. Australia	32,000
12. United Kingdom	30,000	12. Kuwait	31,500
13. Qatar	27,500	13. Mexico	30,000
14. Iraq	27,000	14. United Kingdom	29,000
15. Libya	25,800	15. Iraq	28,000
16. People's Republic of China	25,000	16. Libya	25,700
17. Indonesia	24,000	17. People's Republic of China	25,000
18. Norway	18,500	18. Indonesia	24,000
19. Pakistan	15,820	19. United Arab Emirates	20,000
20. Malaysia	15,000	20. Norway	20,000
Total Free World	1,161,905	Total Free World	1,563,437
Total World	2,114,905	Total World	2,518,437

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

Section XIII
Table 7b

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

	Nation	1979		Nation	1980
1.	U.S.S.R.	910,000	1.	U.S.S.R.	900,000
2.	Iran	500,000	2.	Iran	490,000
3.	United States	200,302	3.	United States	194,917
4.	Algeria	105,000	4.	Algeria	132,000
5.	Saudi Arabia	93,900	5.	Saudi Arabia	93,230
6.	Netherlands	62,000	6.	Canada	85,500
7.	Canada	59,000	7.	Qatar	60,000
8.	Nigeria	42,000	8.	Netherlands	59,500
9.	Venezuela	41,000	9.	Mexico	59,000
10.	Qatar	40,000	10.	Venezuela	42,800
11.	Mexico	32,000	11.	Nigeria	41,400
12.	Kuwait	31,300	12.	Kuwait	31,000
13.	Australia	31,000	13.	Australia	31,000
14.	Iraq	27,800	14.	Iraq	27,500
15.	United Kingdom	27,000	15.	United Kingdom	25,000
16.	People's Republic of China	25,000	16.	People's Republic of China	25,000
17.	Libya	24,200	17.	Libya	24,000
18.	Indonesia	24,000	18.	Indonesia	24,000
19.	Norway	24,000	19.	Norway	23,500
20.	United Arab Emirates	21,600	20.	United Arab Emirates	20,500
	Total Free World	1,552,312		Total Free World	1,639,158
	Total World	2,497,312		Total World	2,574,158

Source: United States, American Gas Association
Rest of World, Oil and Gas Journal

Section XIII
Table 7c

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1981	Nation	1982	Nation	1983
1. U.S.S.R.	920,000	1. U.S.S.R.	1,160,000	1. U.S.S.R.	1,240,000
2. Iran	485,000	2. Iran	484,000	2. Iran	482,600
3. United States	199,021	3. United States	201,730	3. United States	201,512
4. Algeria	131,500	4. Algeria	130,900	4. Saudi Arabia	117,000
5. Saudi Arabia	110,000	5. Saudi Arabia	114,000	5. Algeria	111,250
6. Canada	87,300	6. Canada	89,900	6. Canada	97,000
7. Mexico	64,500	7. Mexico	75,350	7. Mexico	75,850
8. Netherlands	62,000	8. Qatar	60,000	8. Qatar	62,000
9. Qatar	60,000	9. Netherlands	55,700	9. Norway	58,000
10. Norway	42,700	10. Norway	49,370	10. Venezuela	54,079
11. Venezuela	42,000	11. Venezuela	47,000	11. Netherlands	51,920
12. Nigeria	41,000	12. Nigeria	40,500	12. Malaysia	34,000
13. Kuwait	30,800	13. Kuwait	30,500	13. Nigeria	32,400
14. Australia	30,000	14. Indonesia	27,400	14. Kuwait	29,900
15. Iraq	27,450	15. Iraq	27,300	15. Indonesia	29,600
16. United Kingdom	24,800	16. United Kingdom	26,000	16. Iraq	28,800
17. People's Republic of China	24,500	17. People's Republic of China	24,400	17. United Kingdon	25,400
18. Libya	23,800	18. Argentina	23,400	18. Argentina	25,200
19. Indonesia	23,500	19. Libya	23,200	19. Libya	21,500
20. Argentina	22,000	20. Abu Dhabi	19,500	20. Abu Dhabi	19,260
Total Free World	1,692,622	Total Free World	1,720,376	Total Free World	1,747,239
Total World	2,646,522	Total World	2,915,076	Total WORLD	3,031,039

Source: 1981-1983: United States, Department of Energy
Rest of World, Oil and Gas Journal

Section XIII
Table 7d

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion of cubic feet)

Nation	1984	Nation	1985
1. U.S.S.R.	1,400,000	1. U.S.S.R.	1,450,000
2. Iran	480,000	2. Iran	478,600
3. United States	200,247	3. United States	198,000
4. Saudi Arabia	121,000	4. Qatar	150,000
5. Algeria	110,180	5. Saudi Arabia	123,270
6. Canada	90,500	6. Algeria	109,100
7. Mexico	75,352	7. Canada	92,300
8. Qatar	62,000	8. Norway	89,000
9. Norway	58,800	9. Mexico	77,000
10. Venezuela	54,546	10. Netherlands	68,482
11. Netherlands	50,050	11. Venezuela	55,367
12. Malaysia	48,000	12. Malaysia	50,000
13. Nigeria	34,800	13. Indonesia	40,000
14. Kuwait	31,000	14. Nigeria	35,600
15. China	30,300	15. Kuwait	32,500
16. Indonesia	30,200	16. China	30,900
17. Iraq	29,000	17. Iraq	28,800
18. United Kingdom	25,100	18. United Kingdom	27,800
19. Argentina	24,420	19. Argentina	24,628
20. Libya	21,350	20. Libya	21,200
TOTAL FREE WORLD	1,755,397	TOTAL FREE WORLD	1,904,625
TOTAL WORLD	3,202,197	TOTAL WORLD	3,402,025

Source: 1984: United States, U.S. Department of Energy
Rest of World, Oil and Gas Journal, "Worldwide Report" issue
1985: Oil and Gas Journal, "Worldwide Report" issue

Section XIII
Table 8

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1974 (1)(2)	Nation	1975 (1)(2)	Nation	1976 (1)(2)
1. United States	21,600.5	1. United States	20,108.7	1. United States	19,952.4
2. U.S.S.R.	9,201.3	2. U.S.S.R.	10,205.9	2. U.S.S.R.	11,331.3
3. Canada	3,045.5	3. Netherlands	3,208.4	3. Netherlands	3,542.7
4. Netherlands	2,956.7	4. Canada	3,075.7	4. Canada	3,157.2
5. United Kingdom	1,230.0	5. People's Republic of China	1,400.0	5. Iran	1,699.6
6. People's Republic of China	1,200.0	6. United Kingdom	1,208.2	6. People's Republic of China	1,433.7
7. Romania	1,011.5	7. Romania	953.5	7. United Kingdom	1,202.3
8. Iran	787.4	8. Iran	771.1	8. Romania	854.6
9. West Germany	713.2	9. West Germany	639.4	9. Mexico	790.8
10. Mexico	560.9	10. Mexico	583.9	10. Nigeria	632.6
11. Italy	540.4	11. Italy	514.3	11. Italy	562.1
12. Venezuela	476.0	12. Venezuela	450.3	12. West Germany	544.0
13. Libya	345.2	13. Libya	382.6	13. Libya	439.2
14. East Germany	273.1	14. East Germany	280.0	14. Venezuela	396.0
15. France	269.4	15. Argentina	271.6	15. Argentina	280.2
16. Argentina	255.7	16. France	259.8	16. Algeria	256.9
17. Saudi Arabia	219.0	17. Poland	210.6	17. France	250.7
18. Poland	202.7	18. Algeria	210.0	18. Indonesia	248.6
19. Algeria	198.5	19. Saudi Arabia	200.0	19. Australia	209.3
20. Kuwait	186.9	20. Brunei	186.5	20. Chile	175.8
Total Free World	35,054.2	Total Free World	33,931.1	Total Free World	36,006.5
Total World	47,171.5	Total World	47,207.3	Total World	50,367.1

(1) Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: 1974-1975: U.S. Bureau of Mines, World Natural Gas, May 27, 1977
1976: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 8a

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1977(1)(2)	Nation	1978(1)(2)	Nation	1979(1)(2)
1. United States	20,337.5	1. United States	19,974.0	1. United States	20,471.3
2. U.S.S.R.	12,395.2	2. U.S.S.R.	13,131.6	2. U.S.S.R.	14,367.1
3. Canada	3,301.4	3. Canada	3,133.1	3. Canada	3,646.5
4. Netherlands	2,932.5	4. People's Republic of China	2,352.2	4. People's Republic of China	2,832.7
5. People's Republic of China	1,787.0	5. Iran	1,746.9	5. Netherlands	2,717.8
6. Iran	1,756.1	6. Netherlands	1,624.5	6. United Kingdom	1,965.7
7. United Kingdom	1,499.9	7. United Kingdom	1,262.4	7. Romania	1,210.5
8. Romania	1,005.5	8. Romania	1,211.6	8. Mexico	974.9
9. West Germany	907.7	9. Mexico	887.5	9. Iran	913.3
10. Mexico	745.3	10. West Germany	643.2	10. West Germany	826.3
11. Nigeria	717.4	11. Nigeria	586.6	11. Indonesia	816.3
12. Libya	488.6	12. Indonesia	565.8	12. Italy	533.6
13. Italy	448.6	13. Italy	540.8	13. Norway	414.9
14. Venezuela	392.8	14. Venezuela	401.4	14. Venezuela	406.0
15. Indonesia	351.9	15. Libya	364.0	15. Nigeria	365.6
16. Algeria	284.5	16. Norway	351.8	16. Chile	306.4
17. France	256.8	17. Algeria	328.7	17. Brunei-Malaysia	302.7
18. Argentina	250.0	18. Brunei-Malaysia	325.7	18. Algeria	301.5
19. Australia	236.7	19. Chile	320.7	19. Australia	254.1
20. Chile	208.9	20. Argentina	254.3	20. Argentina	241.7
Total Free World	35,393.2	Total Free World	35,272.8	Total Free World	38,075.1
Total World	53,883.7	Total World	53,911.1	Total World	57,666.5

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 8b

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1980(1)(2)	Nation	1981(1)(2)	Nation	1982(1)(2)
1. United States	20,378.8	1. United States	20,177.7	1. United States	18,519.7
2. U.S.S.R.	15,355.5	2. U.S.S.R.	16,390.0	2. U.S.S.R.	17,685.3
3. People's Republic of China	3,469.0	3. Netherlands	3,054.0	3. Canada	2,546.1
4. Netherlands	2,799.6	4. Canada	2,623.0	4. Netherlands	2,521.7
5. Canada	2,668.3	5. Mexico	1,486.0	5. Mexico	1,549.7
6. United Kingdom	1,500.0	6. Romania	1,440.0	6. United Kingdom	1,276.1
7. Mexico	1,190.5	7. United Kingdom	1,427.0	7. Romania	1,150.0
8. Romania	1,176.4	8. Algeria	1,149.0	8. Norway	861.9
9. Indonesia	1,028.4	9. Indonesia	1,075.0	9. Algeria	828.5
10. West Germany	738.6	10. Norway	923.0	10. Saudi Arabia	591.8
11. Norway	705.2	11. Libya	674.0	11. West Germany	585.3
12. Pakistan	600.0	12. West Germany	636.0	12. Indonesia	568.9
13. Italy	524.6	13. Venezuela	602.0	13. Venezuela	527.2
14. Venezuela	518.0	14. Pakistan	600.0	14. Italy	503.6
15. Algeria	517.0	15. Italy	500.0	15. Australia	415.8
16. Saudi Arabia	310.2	16. People's Republic of China	459.0	16. Argentina	386.2
17. Argentina	296.9	17. Saudi Arabia	435.0	17. Iran	381.5
18. Iran	292.0	18. Australia	377.0	18. China	363.7
19. Kuwait	291.3	19. Kuwait	340.0	19. France	332.6
20. Brunei	282.0	20. Argentina	330.0	20. Pakistan	315.3
Total Free World	37,677.7	Total Free World	39,187.7	Total Free World	35,424.6
Total World	58,747.7	Total World	58,397.7	Total World	55,682.6

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

WORLD NATURAL GAS PRODUCTION - TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1983(1)(2)
1. U.S.S.R.	18,903.0
2. United States	16,822.1
3. Netherlands	2,678.9
4. Canada	2,414.1
5. Mexico	1,479.5
6. United Kingdom	1,395.3
7. Romania	1,200.0
8. Norway	861.4
9. Algeria	707.0
10. West Germany	605.2
11. Venezuela	559.2
12. Argentina	549.6
13. Iran	500.2
14. Indonesia	481.8
15. Italy	450.1
16. Australia	423.5
17. Saudi Arabia	381.5
18. China	371.0
19. Pakistan	341.4
20. Brunei	316.3
Total Free World	33,924.6
Total World	55,307.6

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 9

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	-	-	-	2	1	4	41	87	282	42	190	323
Alaska	-	-	-	-	-	-	-	-	-	--	--	50
Arizona	-	-	-	-	-	-	-	-	15	21	--	--
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464
Florida	8	27	39	8	10	15	34	35	36	35	34	35
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587
Maryland	-	-	-	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143
Missouri	38	27	24	21	14	16	15	16	15	12	12	-
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989
Nebraska	-	-	-	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,590	3,637	4,098	2,869	2,808
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869
South Dakota	6	2	1	-	7	6	5	7	-	-	-	-
Tennessee	30	127	83	132	132	107	89	89	39	45	38	54
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5,156,215	5,178,073
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682
Total	4,582,173	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,396,916	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	172	57	56	128	177	165	203	252	248	230	180	627
Alaska	133	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576
Arizona	-	-	-	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101
Arkansas	40,674	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351
California	485,655	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689	649,117
Colorado	99,899	107,404	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804
Florida	34	30	29	29	35	40	107	212	123	108	50	—
Illinois	13,739	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850
Indiana	484	342	382	284	286	199	239	215	198	234	171	153
Kansas	604,410	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955
Kentucky	73,504	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892
Louisiana	2,670,271	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276
Maryland	4,373	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978	813
Michigan	18,916	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851
Mississippi	162,095	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031
Missouri	-	75	90	92	100	107	84	-	121	14	126	87
Montana	30,743	33,418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705
Nebraska	13,128	15,258	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991
New Mexico	739,660	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980
New York	2,915	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358
North Dakota	17,915	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889
Ohio	34,664	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113
Oklahoma	811,508	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943
Pennsylvania	99,366	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	52	63	71	75	90	77	85	-	58	48	57	64
Texas	5,718,993	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716
Utah	38,921	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781
Virginia	2,280	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805
West Virginia	204,633	208,757	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452
Wyoming	156,978	181,610	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517	338,520
Total	12,046,115	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240	21,920,642

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section XIII
Table 9b

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	355	3,644	11,271	27,865	37,814	41,427	57,227	85,599	85,815	105,527	119,334	75,003
Alaska	121,618	125,596	131,007	128,935	160,270	166,072	187,889	203,088	220,754	230,588	242,564	264,364
Arizona	868	442	125	224	208	262	240	286	247	214	187	99
Arkansas	172,154	166,522	157,529	123,975	116,237	109,533	104,096	106,792	109,452	111,808	92,986	124,611
California	612,629	487,278	449,369	365,354	318,308	354,334	311,462	311,084	248,206	309,783	380,730	383,977
Colorado	108,537	116,949	137,725	144,629	171,629	183,972	188,792	183,693	191,239	190,814	199,146	209,892
Florida	903	15,521	33,857	38,137	44,383	43,165	48,171	51,595	50,190	45,744	35,938	22,515
Illinois	498	1,194	1,638	1,436	1,440	1,556	1,003	1,159	1,585	1,574	1,295	1,162
Indiana	537	355	276	176	346	192	183	163	350	463	330	233
Kansas	885,144	889,268	893,118	886,782	843,625	829,170	781,289	854,484	797,762	735,035	640,114	429,597
Kentucky	72,723	63,648	62,396	71,876	60,511	66,137	60,902	70,044	59,520	57,180	61,312	51,924
Louisiana	8,081,907	7,972,678	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217	6,939,924	6,780,184	6,171,627
Maryland	214	244	298	133	93	75	82	88	28	68	56	36
Michigan	25,662	34,221	44,579	69,133	102,113	119,262	129,954	148,047	159,731	158,302	152,593	153,051
Mississippi	118,805	103,989	99,706	78,787	74,345	70,762	82,995	106,579	144,077	185,469	211,371	167,231
Missouri	22	9	33	33	30	29	20	-	-	-	-	-
Montana	32,720	33,474	56,175	54,873	40,734	42,563	46,819	46,522	53,888	51,867	56,565	56,517
Nebraska	3,496	3,478	3,836	2,538	2,565	2,511	2,789	2,882	3,208	2,550	2,519	2,280
New Mexico	1,167,577	1,216,061	1,218,749	1,244,779	1,217,430	1,,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,113	991,178
New York	2,202	3,679	4,539	4,990	7,628	9,235	10,682	13,900	15,500	15,643	16,074	15,877
North Dakota	33,864	32,472	27,703	31,206	24,786	31,470	29,173	30,499	18,468	42,346	42,573	53,818
Ohio	79,903	89,995	93,610	92,055	84,960	88,891	99,327	114,098	123,481	138,856	141,134	138,391
Oklahoma	1,684,260	1,806,887	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412
Oregon	-	-	-	-	-	-	-	-	2	5	5	3
Pennsylvania	76,451	73,958	78,514	82,637	84,676	89,386	91,717	97,763	96,313	97,439	122,454	121,111
South Dakota	-	-	-	-	-	-	-	-	914	1,193	1,155	2,311
Tennessee	89	25	20	17	27	47	263	468	941	1,241	1,719	2,976
Texas	8,550,705	8,657,840	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623	7,251,879	7,050,207	6,468,817
Utah	42,418	39,474	42,715	50,522	55,354	57,416	60,696	58,416	58,605	87,766	91,191	94,255
Virginia	2,619	2,787	5,101	7,096	6,723	6,937	8,220	8,492	8,544	7,812	8,903	6,880
West Virginia	234,027	214,951	208,676	202,306	154,484	153,322	152,767	148,564	150,505	156,551	161,251	150,850
Wyoming	380,105	375,059	357,731	326,657	316,123	328,768	330,180	357,267	414,416	409,541	410,499	424,657
Total	22,493,012	22,531,698	22,647,549	21,600,522	20,108,661	19,952,438	20,025,463	19,974,033	20,471,260	20,378,787	20,177,701	18,519,675

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XII
Table 9c

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1983
Alabama	90,801
Alaska	276,691
Arizona	132
Arkansas	127,561
California	415,324
Colorado	163,545
Florida	21,056
Illinois	1,030
Indiana	135
Kansas	434.736
Kentucky	46,720
Louisiana	5,332,113
Maryland	31
Michigan	138,910
Mississippi	151,204
Missouri	0
Montana	51,967
Nebraska	2,091
New Mexico	895,279
New York	17,836
North Dakota	69,319
Ohio	151,300
Oklahoma	1,730,061
Oregon	3
Pennsylvania	118,372
South Dakota	1,846
Tennessee	3,950
Texas	5,938,561
Utah	63,158
Virginia	4,346
West Virginia	130,178
Wyoming	443,988
Total	16,822,144

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	50,713	61,113	71,072	92,466	111,030	125,874	136,825	139,551	151,325	160,261	165,772	172,406
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	27,768	34,983	44,489	53,419	62,046	63,111	71,210	75,568	88,983	105,860	105,536	105,034
Arkansas	102,779	112,675	113,922	135,609	155,524	165,603	176,489	192,378	197,374	196,297	201,306	202,361
California	548,382	617,615	619,323	683,924	787,848	792,520	862,243	933,934	1,020,395	1,021,002	1,091,236	1,078,855
Colorado	49,027	60,585	73,664	88,692	102,769	101,835	115,922	126,048	143,018	145,640	176,936	165,099
Connecticut	-	-	-	-	-	1,039	5,833	11,415	14,187	18,109	20,328	27,884
Delaware	-	-	708	1,022	1,679	2,276	1,972	2,980	4,280	5,824	6,014	8,301
Dist. of Col.	8,474	9,361	9,305	10,694	11,904	12,782	13,134	14,261	15,042	15,833	15,701	17,594
Florida	7,891	8,973	10,185	12,348	13,044	16,001	19,577	23,159	26,402	35,322	38,871	44,174
Georgia	41,368	47,552	58,824	67,894	94,596	108,329	122,742	132,069	133,044	148,567	154,778	164,114
Idaho	-	-	-	-	-	-	-	-	-	765	10,733	15,903
Illinois	132,153	168,796	202,546	235,211	250,812	344,705	350,980	391,408	398,718	417,443	422,840	452,006
Indiana	42,528	50,774	55,263	58,620	69,177	96,124	103,444	116,308	126,897	140,135	145,179	154,583
Iowa	40,948	50,350	57,620	66,233	79,640	94,951	106,755	119,876	138,661	147,892	154,964	159,982
Kansas	191,952	199,893	206,593	242,603	278,892	279,632	283,604	293,784	309,028	324,335	343,833	362,280
Kentucky	36,938	41,357	45,504	61,323	74,386	87,006	104,781	110,039	117,496	126,580	132,436	136,990
Louisiana	375,206	426,837	450,712	475,500	549,305	599,312	594,656	636,704	774,320	839,393	840,331	931,203
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maryland	3,402	4,280	4,821	13,813	22,286	26,468	29,470	35,010	39,889	47,553	51,177	57,328
Massachusetts	-	-	-	-	1,783	11,386	17,683	35,486	43,932	50,691	56,626	67,602
Michigan	80,571	75,978	84,315	127,180	154,283	163,991	178,307	188,922	207,005	243,465	272,353	298,104
Minnesota	43,198	52,376	59,040	67,861	84,205	97,591	104,508	115,140	123,734	136,831	147,732	149,042
Mississippi	52,461	65,245	60,987	76,918	97,786	119,638	118,617	136,797	138,186	145,353	148,279	157,169
Missouri	78,101	90,883	99,667	140,384	156,922	168,992	173,674	188,349	199,272	219,424	223,528	241,239
Montana	30,919	32,919	34,361	38,544	37,481	40,771	39,934	40,624	47,491	47,690	52,200	51,825
Nebraska	39,699	47,647	51,911	61,742	72,386	78,544	83,384	93,189	102,177	109,265	116,326	114,661
Nevada	-	-	-	-	-	-	-	982	2,484	6,676	8,666	8,826
New Hampshire	-	-	-	-	3	316	857	1,065	1,206	1,445	1,787	2,421
New Jersey	-	-	3,172	3,209	30,887	40,409	58,685	65,718	74,601	90,092	100,483	119,946
New Mexico	102,766	110,132	127,423	147,509	174,808	194,748	200,039	177,221	215,281	229,821	243,800	251,518
New York	41,572	44,200	51,064	65,157	144,920	180,747	197,878	225,844	243,513	268,408	299,153	343,326
North Carolina	-	-	-	-	1,631	2,945	6,172	9,436	12,644	16,579	19,533	23,519
North Dakota	2,608	2,712	2,686	3,279	3,408	3,342	3,559	4,820	9,320	10,428	13,753	15,639
Ohio	221,571	236,137	246,212	324,594	375,820	393,250	420,809	442,523	500,865	561,557	583,753	618,022
Oklahoma	254,522	277,955	258,579	286,793	307,887	319,908	333,972	327,936	334,057	358,930	387,277	342,080
Oregon	-	-	-	-	-	-	-	-	-	4,473	18,227	22,752
Pennsylvania	175,906	191,631	209,749	263,199	311,937	324,187	335,457	353,185	390,280	431,325	445,813	465,732
Rhode Island	-	-	-	-	-	-	670	4,423	5,375	6,242	8,139	9,940
South Carolina	-	-	-	-	853	2,896	8,772	16,573	23,043	44,467	39,741	39,678
South Dakota	8,016	8,540	8,212	10,001	11,447	11,701	13,688	15,564	16,107	18,002	18,251	19,535
Tennessee	33,986	37,766	41,609	67,813	88,078	99,817	106,130	114,869	118,052	126,815	130,601	142,860
Texas	1,444,422	1,605,955	1,658,379	1,824,553	2,130,377	2,175,100	2,194,172	2,198,175	2,236,540	2,323,847	2,455,528	2,555,541
Utah	20,919	21,627	24,338	26,368	29,014	30,929	34,592	41,073	48,903	54,669	57,004	55,706
Vermont	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Virginia	3,055	3,877	4,324	7,639	14,853	18,630	27,716	35,604	38,884	43,362	48,527	56,052
Washington	-	-	-	-	-	-	-	-	-	5,224	40,108	53,063
West Virginia	106,105	112,702	111,802	132,273	139,608	146,153	148,017	138,846	158,006	161,246	159,520	164,347
Wisconsin	267	323	1,696	15,380	28,382	33,632	36,339	39,287	40,621	48,188	59,592	67,596
Wyoming	26,351	31,400	31,407	36,637	38,865	36,287	36,070	36,709	39,705	45,552	45,504	46,810
U.S. Total	4,426,544	4,945,149	5,195,484	6,026,404	7,102,562	7,613,478	7,979,338	8,402,852	9,070,343	9,706,878	10,279,775	10,760,648

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(1) Included with New Hampshire.

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section XIII
Table 10a

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	178,595	184,118	184,909	194,369	205,763	222,047	229,152	233,098	254,176	287,212	301,128	298,722
Alaska	133	229	557	2,137	4,214	5,781	6,922	10,784	11,889	17,548	42,914	63,990
Arizona	112,722	135,494	153,674	157,892	157,494	162,570	154,489	162,320	158,766	176,547	195,476	192,996
Arkansas	218,528	216,516	209,420	224,744	251,129	273,671	281,825	295,078	298,959	325,236	353,465	385,186
California	1,180,331	1,311,253	1,405,882	1,476,322	1,554,126	1,737,341	1,757,292	1,884,878	1,945,935	2,078,719	2,078,868	2,156,367
Colorado	196,057	207,464	212,611	204,940	207,663	236,325	236,745	233,896	235,634	261,366	276,495	285,733
Connecticut	25,875	28,453	30,361	32,227	34,809	37,502	40,822	47,695	49,780	53,202	57,485	60,574
Delaware	9,459	9,035	9,380	14,492	16,378	17,091	17,969	19,045	21,063	24,059	25,863	26,421
Dist. of Col.	17,123	18,142	18,518	19,338	19,359	20,633	21,210	(2)	(2)	(2)	(2)	(2)
Florida	91,490	137,875	143,656	157,735	177,496	185,249	188,389	212,278	225,531	275,534	313,608	338,645
Georgia	180,342	182,087	179,957	192,638	187,600	206,691	211,321	233,291	254,334	283,115	311,543	332,526
Idaho	19,641	22,006	23,969	25,806	26,635	30,825	33,889	36,104	34,283	39,479	41,436	46,570
Illinois	518,111	536,549	574,346	620,309	658,432	731,921	772,092	854,149	962,078	1,008,061	1,098,817	1,188,043
Indiana	171,158	212,851	239,932	272,309	297,897	333,718	357,882	399,905	434,632	454,013	530,981	545,368
Iowa	182,827	187,138	204,663	213,552	219,005	243,634	247,513	239,478	272,850	297,498	318,341	348,662
Kansas	380,241	372,302	364,957	380,055	387,880	433,429	464,337	507,704	481,443	525,592	583,040	614,537
Kentucky	147,993	159,710	161,912	168,138	175,928	185,780	182,828	160,392	203,964	205,380	243,461	254,622
Louisiana	893,369	947,938	1,036,887	1,007,041	1,070,471	1,139,186	1,155,260	1,258,776	1,509,553	1,661,782	1,942,072	2,034,049
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maryland	60,674	64,923	68,390	76,551	81,774	86,813	93,957	117,208	139,853	149,125	168,944	182,135
Massachusetts	72,994	77,886	81,768	89,015	98,447	106,699	114,227	116,198	128,217	132,325	136,988	147,307
Michigan	332,756	368,531	407,732	443,677	463,667	500,628	558,240	619,863	689,446	703,782	779,278	811,454
Minnesota	161,390	179,827	192,584	214,130	219,047	236,976	248,741	264,488	283,086	311,898	325,687	342,322
Mississippi	183,158	188,864	190,930	199,733	227,184	252,023	249,845	286,390	283,287	312,862	327,499	361,652
Missouri	255,095	261,372	274,487	289,482	303,075	325,194	341,144	351,768	360,703	365,546	398,697	429,526
Montana	52,183	54,569	57,781	63,298	67,337	67,652	70,895	73,829	65,782	63,642	78,988	90,823
Nebraska	132,651	139,028	143,169	146,043	149,014	164,224	168,032	198,592	189,831	204,139	210,631	222,890
Nevada	10,450	12,447	15,864	17,528	19,292	23,928	27,679	34,218	35,035	37,029	44,140	52,528
New Hampshire	2,480	2,852	3,018	3,315	3,596	3,813	4,084	5,567	6,578	6,630	9,196	10,691
New Jersey	132,984	139,258	153,806	174,210	188,249	200,109	209,757	227,271	251,482	268,495	304,835	322,853
New Mexico	272,922	266,409	288,455	292,495	275,969	257,173	263,798	261,918	301,739	309,409	302,389	322,750
New York	379,928	419,460	435,417	474,384	506,942	513,828	544,414	631,808	589,120	639,845	683,688	710,885
North Carolina	32,685	45,442	50,523	56,373	62,296	68,533	75,745	86,753	97,981	114,809	136,651	151,227
North Dakota	16,981	17,274	19,625	22,196	23,765	26,232	30,318	40,836	37,008	38,481	37,389	37,207
Ohio	670,618	698,569	719,674	756,398	797,318	824,111	879,639	944,767	962,821	987,841	1,031,963	1,052,933
Oklahoma	379,178	383,042	378,096	485,726	588,245	598,631	524,404	490,032	500,330	552,189	603,461	656,095
Oregon	27,498	30,861	33,827	37,865	43,350	53,984	56,065	65,093	69,877	79,226	87,854	95,284
Pennsylvania	502,066	520,788	529,716	550,080	585,426	607,277	629,485	677,111	678,599	718,025	766,034	772,467
Rhode Island	11,011	11,839	12,780	13,794	14,725	15,465	16,349	16,684	18,493	20,704	22,555	25,093
South Carolina	54,363	58,532	60,928	70,645	75,099	78,716	86,865	96,437	100,539	127,514	140,826	159,830
South Dakota	23,584	24,533	25,820	27,413	25,159	27,639	26,974	28,256	27,735	28,815	33,826	36,319
Tennessee	149,462	155,623	160,667	167,737	169,418	181,476	201,499	226,025	232,212	234,288	247,857	256,148
Texas	2,865,595	2,981,167	3,030,914	3,209,968	3,313,837	3,377,093	3,482,821	3,709,715	3,918,930	4,153,513	4,324,701	4,559,373
Utah	61,401	75,650	81,879	92,890	103,628	119,625	114,601	106,474	107,685	113,132	123,291	123,430
Vermont	(1)	(1)	(1)	(1)	(1)	-	-	(1)	(1)	(1)	(1)	(1)
Virginia	59,842	66,181	70,579	77,254	83,011	89,072	95,700	121,702	115,887	121,928	128,748	136,523
Washington	58,650	64,934	70,343	81,431	86,834	105,789	108,108	116,879	127,230	139,421	144,521	149,992
West Virginia	191,548	179,969	192,221	188,602	190,264	182,515	179,084	183,109	165,228	189,027	178,280	192,340
Wisconsin	82,377	90,620	113,679	136,516	152,354	170,202	200,484	224,675	248,033	271,765	316,279	337,822
Wyoming	59,119	59,635	61,451	67,336	69,879	67,559	70,298	79,174	85,277	90,191	112,611	122,859
U.S. Total	11,819,638	12,509,427	13,081,714	13,890,129	14,640,480	15,536,373	16,033,189	17,191,711	18,172,894	19,459,939	20,922,800	22,045,799

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(1) Included with New Hampshire.
(2) Included with Maryland.

Source: U.S. Bureau of Mines, Natural Gas Annuals
U.S. Energy Information Administration, Natural Gas Annuals

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	286,254	278,710	272,267	275,262	264,782	226,640	241,237	237,258	283,435	269,240
Alaska	67,805	75,407	64,059	63,971	85,995	91,350	116,278	145,025	157,236	153,345
Arizona	213,313	227,909	214,323	192,446	156,222	171,275	167,092	175,041	172,738	165,850
Arkansas	336,207	317,572	328,921	291,345	259,119	249,764	229,558	220,699	250,747	273,720
California	2,176,849	2,209,699	2,063,125	1,851,614	1,848,070	1,770,736	1,772,041	1,563,172	1,810,381	1,807,731
Colorado	293,521	313,817	328,681	319,266	317,392	314,228	282,215	267,838	292,272	256,363
Connecticut	61,434	64,008	62,609	66,343	64,011	65,855	64,068	65,191	67,957	72,583
Delaware	26,452	24,088	22,949	20,365	18,603	19,182	15,787	20,626	24,981	29,797
Dist. of Col.	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	27,868
Florida	336,901	301,121	314,384	292,920	289,265	302,882	302,344	318,344	344,177	316,588
Georgia	342,579	331,143	348,089	330,339	326,559	261,320	264,665	278,272	312,299	315,201
Idaho	50,096	56,630	56,045	53,057	60,451	47,156	45,537	44,210	54,237	49,047
Illinois	1,242,797	1,220,635	1,163,800	1,163,215	1,107,900	1,187,712	1,167,099	1,174,934	1,142,732	1,089,720
Indiana	566,996	576,948	542,300	531,872	477,341	425,221	398,268	440,955	504,185	489,254
Iowa	344,639	344,516	364,640	367,595	345,798	311,425	280,246	238,229	291,521	269,581
Kansas	646,730	668,847	648,369	630,429	541,490	556,172	506,910	519,346	584,236	488,338
Kentucky	250,493	261,271	250,913	233,560	212,993	251,198	219,521	212,913	218,689	202,284
Louisiana	2,078,996	2,137,729	2,216,692	2,202,693	1,978,129	2,216,289	2,190,848	2,249,172	1,978,382	1,794,007
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2,268
Maryland	188,371	204,922	201,961	199,331	165,932	176,272	158,838	161,695	201,584	160,244
Massachusetts	156,451	160,280	155,547	155,268	153,967	156,247	160,343	160,503	156,459	182,587
Michigan	852,575	866,682	921,932	937,964	887,063	894,700	741,295	789,594	875,726	865,137
Minnesota	351,442	351,408	360,811	351,644	331,186	320,156	293,381	313,229	334,202	285,846
Mississippi	379,538	379,044	314,870	276,878	230,620	199,642	197,689	203,719	254,366	263,530
Missouri	429,105	425,215	426,807	409,884	369,620	380,258	366,970	358,905	347,257	318,451
Montana	89,021	85,161	91,148	80,766	80,351	75,132	70,956	72,649	69,805	60,724
Nebraska	224,273	225,101	230,106	223,267	219,147	198,893	188,804	163,051	170,013	163,079
Nevada	66,511	69,522	73,072	63,438	61,251	66,797	71,052	64,506	84,433	58,454
New Hampshire	12,088	13,267	13,881	14,697	13,534	13,545	13,609	14,039	14,881	9,474
New Jersey	326,768	321,288	301,566	275,050	244,102	321,535	247,120	228,843	260,579	339,825
New Mexico	323,178	342,150	312,593	312,422	296,369	340,754	229,813	213,698	211,182	221,793
New York	716,550	692,730	682,547	627,493	576,883	595,933	561,698	569,702	623,891	737,443
North Carolina	160,567	163,897	160,871	140,217	114,822	101,175	72,527	81,989	130,884	153,316
North Dakota	37,169	39,672	35,397	38,030	39,230	43,598	37,650	39,067	29,236	22,848
Ohio	1,087,126	1,147,804	1,104,156	1,086,651	956,876	1,005,927	847,497	929,593	898,029	896,983
Oklahoma	667,496	686,133	673,385	722,870	728,827	812,197	766,986	770,249	824,980	722,318
Oregon	100,897	110,360	107,961	98,051	109,898	92,500	72,521	86,140	93,707	78,703
Pennsylvania	802,168	829,031	783,368	715,623	653,810	713,579	668,337	673,770	740,818	775,715
Rhode Island	25,662	22,494	20,559	23,781	23,129	20,697	25,631	23,042	27,219	27,630
South Carolina	156,263	144,120	153,147	131,991	122,949	148,989	138,585	117,573	119,319	142,228
South Dakota	31,832	34,077	31,221	32,076	32,534	39,207	36,097	35,423	25,724	24,078
Tennessee	265,011	277,275	293,620	260,171	217,328	212,326	202,135	184,048	226,477	229,661
Texas	4,813,016	4,882,741	5,087,521	4,912,481	4,379,948	4,403,942	4,143,023	4,211,432	4,001,355	4,091,099
Utah	125,225	127,475	126,595	124,973	127,819	150,237	106,315	118,513	126,047	115,092
Vermont	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	3,991
Virginia	144,014	155,658	152,848	143,650	121,320	123,509	118,020	134,144	134,088	158,479
Washington	156,663	170,448	197,861	182,723	164,334	148,781	142,657	127,280	158,515	128,770
West Virginia	189,319	208,552	195,744	191,975	167,693	159,007	144,535	151,839	148,538	143,047
Wisconsin	348,132	320,826	367,961	381,148	364,801	315,154	349,160	370,726	367,517	351,857
Wyoming	128,088	142,062	124,692	109,818	100,412	101,488	83,623	87,292	93,797	68,975
U.S. Total	22,676,581	23,009,445	22,965,914	22,110,623	20,409,875	20,800,582	19,520,581	19,627,478	20,240,761	19,877,293(3)

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(1) Included with New Hampshire.
(2) Included with Maryland.
(3) Total includes 3,131 MMcf from Hawaii in 1980.
(4) Total may not add due to independent rounding.

Source: U.S. Energy Information Administration, Natural Gas Annuals

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1981(1)	1982	1983
Alabama	271,280	240,957	221,583
Alaska	121,727	237,881	239,200
Arizona	182,533	135,031	115,233
Arkansas	264,787	226,941	206,966
California	1,858,178	1,682,718	1,535,031
Colorado	211,780	224,991	213,812
Connecticut	76,829	78,246	74,427
Delaware	30,643	27,833	34,884
Dist. of Col.	29,023	29,280	29,340
Florida	337,557	324,807	306,307
Georgia	316,613	294,651	295,531
Hawaii	2,899	2,804	2,669
Idaho	44,960	39,971	35,179
Illinois	1,061,957	994,179	938,340
Indiana	496,349	467,842	426,770
Iowa	253,231	237,089	220,517
Kansas	428,130	400,920	346,204
Kentucky	199,445	188,536	174,306
Louisiana	1,781,716	1,556,052	1,412,983
Maine	2,326	2,691	2,424
Maryland	175,289	157,990	145,628
Massachusetts	184,575	195,107	191,815
Michigan	800,873	748,141	696,455
Minnesota	266,282	262,039	240,777
Mississippi	242,987	269,131	237,859
Missouri	283,514	279,449	258,560
Montana	52,452	52,208	46,249
Nebraska	138,322	138,238	129,920
Nevada	73,182	46,627	41,926
New Hampshire	10,220	10,078	9,655
New Jersey	390,121	375,660	405,387
New Mexico	196,212	204,163	178,698
New York	760,463	775,268	720,398
North Carolina	152,496	142,129	136,579
North Dakota	34,445	28,370	26,126
Ohio	870,341	813,519	747,268
Oklahoma	670,971	676,762	628,950
Oregon	75,562	70,824	67,045
Pennsylvania	784,691	694,639	643,952
Rhode Island	29,202	27,874	29,044
South Carolina	141,924	98,100	101,632
South Dakota	22,056	25,089	23,326
Tennessee	223,529	207,161	194,610
Texas	3,926,687	3,394,404	3,241,515
Utah	102,239	117,706	110,185
Vermont	4,383	4,370	4,359
Virginia	151,737	150,964	142,944
Washington	124,942	108,653	107,193
West Virginia	148,527	130,029	115,813
Wisconsin	324,611	312,007	299,099
Wyoming	69,056	90,923	80,871
U.S. Total	19,403,858	18,001,055	16,834,914

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(1) Total may not add due to independent rounding.

Source: U.S. Energy Information Administration, Natural Gas Annuals

BASIC PETROLEUM DATA BOOK

SECTION XIV. OPEC

Table 1. OPEC Crude Oil Reserves

Table 2 OPEC Crude Oil Production

Table 3. U.S. Total Petroleum Imports From OPEC Nations

Table 4. U.S. Crude Oil Imports From OPEC Nations

OPEC CRUDE OIL RESERVES
ANNUALLY AS OF JANUARY 1
(Millions of Barrels)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC
1960	50,000	62,000	6,500	35,000	25,000	18,000	-	-	-	-	-	-	-	-	196,500
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	-	-	-	-	-	-	-	201,000
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	-	-	-	-	-	214,300
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	-	-	-	-	-	220,000
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000		-	-	-	-	232,950
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	-	-	-	-	-	238,500
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	-	-	-	-	-	239,650
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	-	-	-	-	278,900
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	-	-	-	-	299,450
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	-	-	-	326,225
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000 (10)	-	-	-	391,750
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000	9,300	-	-	431,900
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	-	-	425,251
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,879
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19,500	1,700	2,125	440,395
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,600	29,411	8,440	17,400	1,100	500	435,591
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355
1982	164,600	64,480	6,500	57,000	29,700	20,300	3,434	22,600	9,800	32,176	8,080	16,500	850	480	436,500
1983	162,400	64,230	5,840	55,308	41,000	21,500	3,425	21,500	9,550	32,354	9,440	16,750	1,400	460	445,157
1984	166,000	63,900	5,695	51,000	43,000	24,850	3,330	21,370	9,100	32,240	9,220	16,550	1,675	490	448,320
1985	169,000	90,000	5,420	48,500	44,500	25,845	3,350	21,100	8,650	32,390	9,000	16,650	1,400	510	476,215

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(1) Original member 1960.
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(3) Joined in 1961.
(4) Joined in 1962.
(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(6) Joined in 1969.
(7) Joined in 1971.
(8) Joined in 1973.
(9) Joined as an associate member in 1973 and became a full member in 1975.
(10) Government estimate

SOURCE: Oil and Gas Journal, "Worldwide Report" issue

Section XIV
Table 2

OPEC CRUDE OIL PRODUCTION
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC
1960	1,247	1,624	136	1,054	967	2,846	-	-	-	-	-	-	-	-	7,874
1961	1,393	1,644	179	1,183	1,002	2,920	176	-	-	-	-	-	-	-	8,497
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	-	-	-	-	-	9,954
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	-	-	-	-	-	10,865
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	-	-	-	-	-	12,082
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	-	-	-	-	-	13,177
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	-	-	-	-	-	14,217
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	-	-	-	-	15,631
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	-	-	-	-	17,660
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	-	-	-	20,341
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	-	-	-	22,134
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	-	-	25,092
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	-	-	26,711
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371
1979	9,251	2,213	568	3,168	3,477	2,356	508	2,092	1,591	1,831	1,137	2,302	214	203	30,911
1980	9,631	1,389	544	1,662	2,514	2,165	471	1,830	1,576	1,702	1,020	2,058	204	175	26,941
1981	9,625	947	370	1,381	993	2,108	405	1,137	1,604	1,500	803	1,445	211	151	22,680
1982	6,327	663	317	2,282	972	1,893	328	1,183	1,314	1,248	701	1,298	211	154	18,891
1983	4,867	881	390	2,492	922	1,790	295	1,076	1,385	1,118	699	1,241	236	157	17,549

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(1) Original member 1960.
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(3) Joined in 1961.
(4) Joined in 1962.
(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(6) Joined in 1969.
(7) Joined in 1971.
(8) Joined in 1973.
(9) Joined as an associate member in 1973 and became a full member in 1975.

Source: U.S. Energy Information Administration
1979-1983: CIA, International Energy Statistical Review

Section XIV
Table 3

U.S. TOTAL PETROLEUM IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	Total U.S. Petroleum Imports
1960	79	146	45	36	17	832	-	-	-	8	-	-	-	-	1,155	1,815
1961	69	130	53	60	25	800	36	-	-	-	-	-	-	-	1,173	1,917
1962	73	120	43	49	2	907	27	19	67	-	-	-	-	-	1,307	2,082
1963	86	89	44	62	1	899	17	19	59	-	-	-	-	-	1,276	2,123
1964	106	69	48	66	-	931	20	39	63	-	-	-	-	-	1,342	2,258
1965	144	60	27	79	16	994	13	41	61	-	-	-	-	-	1,435	2,468
1966	135	31	19	89	26	1,021	1	69	50	-	-	-	-	-	1,441	2,573
1967	86	23	11	71	5	935	-	42	62	5	-	-	-	-	1,240	2,537
1968	60	48	29	61	-	888	-	114	73	15	-	-	-	-	1,288	2,840
1969	42	39	43	46	-	876	1	135	89	14	2	-	-	-	1,287	3,166
1970	42	36	-	38	-	989	-	47	70	63	8	-	-	-	1,293	3,419
1971	127	36	-	112	11	1,019	-	57	111	80	15	103	-	-	1,671	3,925
1972	190	45	-	142	4	960	3	123	164	73	92	251	-	-	2,047	4,741
1973	486	47	-	223	4	1,135	7	164	213	71	135	459	48	-	2,992	6,256
1974	461	5	-	469	-	979	17	4	300	74	190	713	42	23	3,277	6,112
1975	715	15	-	280	3	698	18	232	388	117	282	762	57	27	3,594	6,025
1976	1,230	5	-	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,295
1977	1,380	48	-	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807
1978	1,144	6	-	555	62	645	54	654	573	385	649	919	54	41	5,751	8,363
1979	1,356	8	-	304	88	690	31	658	420	281	636	1,080	42	42	5,636	8,456
1980	1,261	25	-	9	28	481	22	554	348	172	488	857	27	26	4,298	6,909
1981	1,129	-	-	-	(10)	406	7	319	366	81	311	620	48	35	3,324	5,996
1982	552	5	-	35	3	412	7	26	248	92	170	514	42	40	2,145	5,113
1983	337	14	-	48	10	422	-	-	338	30	240	302	61	59	1,863	5,051

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(1) Original member 1960.

(2) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(3) Joined in 1961.

(4) Joined in 1962.

(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

(6) Joined in 1969.

(7) Joined in 1971.

(8) Joined in 1973.

(9) Joined as an associate member in 1973 and became a full member in 1975.

(10) Less than 500 barrels per day.

Source: U.S. Energy Information Administration. P.A.D. District Supply/Disposition Annual
1981-1983--U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. CRUDE OIL IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	Total U.S. Crude Oil Imports
1960	77	130	45	36	17	472	-	-	-	-	-	-	-	-	777	1,015
1961	62	121	53	60	20	427	10	-	-	-	-	-	-	-	753	1,045
1962	67	112	43	49	2	463	26	18	67	-	-	-	-	-	847	1,126
1963	79	81	44	62	1	478	16	19	59	-	-	-	-	-	839	1,131
1964	97	64	48	66	-	476	20	39	63	-	-	-	-	-	873	1,198
1965	132	55	27	78	16	432	12	41	61	-	-	-	-	-	854	1,238
1966	126	26	19	84	26	404	1	69	50	-	-	-	-	-	805	1,225
1967	81	19	11	65	5	359	-	42	62	5	-	-	-	-	649	1,128
1968	52	43	29	58	-	344	-	114	73	15	-	-	-	-	728	1,290
1969	35	34	43	42	-	306	1	134	89	14	1	-	-	-	699	1,490
1970	40	33	-	33	-	268	-	47	70	63	6	-	-	-	560	1,324
1971	115	29	-	106	11	303	-	53	110	80	13	95	-	-	915	1,681
1972	174	36	-	136	4	255	3	109	163	73	87	243	-	-	1,283	2,216
1973	462	42	-	217	4	344	7	133	200	71	119	448	47	-	2,094	3,244
1974	438	5	-	463	-	319	17	4	284	69	180	697	42	23	2,541	3,477
1975	701	4	-	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105
1976	1,222	1	-	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287
1977	1,369	42	-	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,568
1978	1,142	5	-	554	62	181	64	638	533	385	634	910	38	38	5,184	6,356
1979	1,347	5	-	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519
1980	1,250	27	-	8	28	156	22	548	314	172	456	841	17	25	3,864	5,263
1981	1,112	-	-	-	-	147	7	317	318	77	261	611	38	35	2,922	4,396
1982	530	2	-	35	3	155	7	23	226	81	90	510	32	40	1,734	3,488
1983	321	7	-	48	10	164	-	-	315	18	176	301	56	59	1,477	3,329

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(1) Original member 1960.

(2) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(3) Joined in 1961.

(4) Joined in 1962.

(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

(6) Joined in 1969.

(7) Joined in 1971.

(8) Joined in 1973.

(9) Joined as an associate member in 1973 and became a full member in 1975.

(10) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues
1981-1983: U.S. Energy Information Administration, Petroleum Supply Annual

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

Table 1. Estimated Average Number of Empployees in Important Segments of the Petroleum Industry

Table 2. Conversion Table

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1983

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	1,758	402	29	104	2,998	4,558	7,375	17,224
Alaska	7,535	160	-	1,143	289	523	1,205	10,855
Arizona	163	76	-	100	964	1,304	7,311	9,918
Arkansas	3,946	765	NA	NA	2,448	2,594	4,414	14,167
California	40,081	27,624	662	1,040	10,941	15,776	59,222	155,346
Colorado	26,448	600	32	107	2,397	3,022	8,456	41,062
Connecticut	177	124	77	15	1,302	2,622	9,068	13,385
Delaware	40	1,032	11	-	346	351	1,360	3,140
Florida	1,062	64	123	57	2,253	6,821	28,240	38,620
Georgia	113	109	138	510	3,602	6,013	14,818	25,303
Hawaii	NA	413	-	-	353	503	3,577	4,846
Idaho	149	-	-	NA	466	1,603	2,100	4,318
Illinois	6,116	6,729	791	1,022	8,659	10,727	23,848	57,892
Indiana	934	3,026	227	469	3,035	3,917	14,009	25,617
Iowa	30	-	56	172	1,138	2,975	11,177	15,548
Kansas	15,565	3,140	308	1,884	4,575	2,680	7,253	35,405
Kentucky	3,409	3,574	54	159	3,155	3,010	8,891	22,252
Louisiana	79,200	12,400	NA	1,300	7,000	5,800	8,400	114,100
Maine	14	-	-	NA	NA	1,216	2,519	3,749
Maryland	-	-	229	-	1,266	3,530	12,815	17,840
Massachusetts	68	79	320	8	4,796	3,521	13,691	22,483
Michigan	4,117	1,998	436	217	8,098	5,040	19,981	39,887
Minnesota	NA	NA	NA	196	2,457	2,677	14,510	19,840
Mississippi	8,100	1,660	120	151	2,170	3,530	4,670	20,401
Missouri	165	NA	377	252	5,010	6,827	14,282	26,913
Montana	3,760	1,026	-	92	117	1,529	2,406	8,930
Nebraska	223	15	154	97	3,601	1,758	6,078	11,926
Nevada	313	38	-	20	555	402	3,332	4,660
New Hampshire	1	-	3	3	315	450	2,350	3,122
New Jersey	110	8,300	1,020	165	2,054	4,034	19,205	34,888
New Mexico	12,988	971	22	301	3,771	1,774	4,029	23,856
New York	2,680	11,145	373	126	7,083	11,002	28,229	60,638
North Carolina	13	-	175	116	2,427	5,087	9,193	17,011
North Dakota	5,387	240	-	172	665	2,377	2,019	10,860
Ohio	11,283	5,794	624	673	7,715	5,996	27,289	59,374
Oklahoma	74,870	7,648	290	2,454	5,773	7,124	6,373	104,532
Oregon	82	NA	NA	NA	1,391	2,173	7,292	10,938
Pennsylvania	4,868	11,953	1,300	730	8,702	10,968	26,472	64,993
Rhode Island	28	-	NA	-	848	572	2,313	3,761
South Carolina	14	NA	NA	NA	718	3,411	6,904	11,047
South Dakota	124	3	-	62	130	1,426	2,490	4,235
Tennessee	763	318	53	45	1,744	4,558	12,084	19,565

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1983

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Texas	252,408	40,931	913	5,245	29,375	25,589	34,788	389,249
Utah	4,493	863	NA	83	2,992	1,945	4,065	14,441
Vermont	NA	-	NA	-	124	282	1,656	2,062
Virginia	200	200	NA	100	2,500	7,400	13,700	24,100
Washington	214	1,554	61	84	1,551	2,972	9,279	15,715
West Virginia	5,866	482	64	133	5,454	2,065	3,731	17,795
Wisconsin	15	NA	-	149	2,917	3,713	13,234	20,028
Wyoming	19,655	1,597	2	443	1,190	1,394	3,364	27,645
District of Columbia	—	123	—	—	704	285	1,087	2,199
Total U.S.	599,548	157,176	9,044	20,199	174,134	211,426	556,154	1,727,681

NA Not Available

Note: The above estimates represent results of the Independent Petroleum Association of America's survey of State Labor Departments. The totals of these individual state estimates do not agree with totals shown by the Bureau of Labor Statistics in its "Employment and Earnings" publication.

Section XV
Table 2

THE FOLLOWING EQUIVALENTS ARE DERIVED FROM THE USE OF BRITISH THERMAL UNIT HEAT VALUES(1)

		Crude Petroleum (42 gal barrel)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu ft)	Distillate Fuel Oil (42 gal barrel)	Residual Fuel Oil (42 gal barrel)	Liquefied Pet. Gas (42 gal barrel)
Crude Petroleum	42 Gal.Bbl.equals	-	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	Short Ton equals	4.379	-	0.969	24.541	4.361	4.040	6.333
Bituminous Coal and Lignite	Short Ton equals	4.517	1.031	-	25.314	4.498	4.167	6.532
Natural Gas-Dry	1000 Cu.Ft.equals	0.178	0.041	0.040	-	0.178	0.165	0.258
Distillate Fuel Oil	42 Gal.Bbl.equals	1.004	0.229	0.222	5.628	-	0.927	1.452
Residual Fuel Oil	42 Gal.Bbl.equals	1.084	0.248	0.240	6.074	1.079	-	1.567
Liquefied Petroleum Gas	42 Gal.Bbl.equals	0.692	0.158	0.153	3.875	0.689	0.638	-
(1) B.T.U. Heat Values as used by Bureau of Mines	1000s	5,800	25,400	26,200	1,035	5,825	6,287	4,011

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248; Kerosine 5,670; Lubricants 6,064.8; Wax 5,537.3; Asphalt 6,636; Miscellaneous 5,796
Natural Gasoline 4,620 per 42 gallon barrel

GALLON, BARREL, POUND AND TON EQUIVALENTS FOR CONVERTING MEASURES OF CRUDE PETROLEUM AND REFINED PETROLEUM PRODUCTS

	Gravity at 60° F(2)	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pound
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	-	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	-	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

(2) For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu.Ft. = One 42 Gallon Barrel
U.S. Gallon = .833 Imperial Gallon
Imperial Gallon = 1.2 U.S. Gallons

Source: ASTM-IP Petroleum Measurement Tables

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BASIC PETROLEUM DATA BOOK

Petroleum Industry Statistics

Volume V, Number 3
September 1985

American
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Institute

The American Petroleum Institute, incorporated in 1919 under the laws of the District of Columbia, serves as a forum, information bureau, technical clearing house, and national trade association for the petroleum industry.

Beginning with Volume 1, Number 1, the Basic Petroleum Data Book will be updated three times a year. Each issue will be an independent newly-printed book which can be discarded when subsequent volumes are released. This format supersedes the original loose-leaf Data Book first printed in October 1975.

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Section I
Table 1

MARKET ECONOMIES OIL CONSUMPTION AND PRODUCTION,(1) HISTORY AND PROJECTIONS, MIDPRICE SCENARIO

(Million Barrels per Day)

Supply and Disposition	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1995
Consumption												
United States(2)	17.5	16.5	15.6	15.5	16.0	16.1	16.4	16.7	16.8	16.9	16.9	17.7
Canada	1.9	1.8	1.6	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.6	1.6
Japan	5.0	4.8	4.6	4.5	4.5	4.5	4.7	4.9	5.0	5.0	5.0	5.1
OECD Europe	13.5	12.5	12.2	11.8	12.1	12.5	12.9	13.2	13.3	13.2	13.1	12.6
OPEC	2.7	3.0	2.9	3.1	3.1	3.2	3.4	3.6	3.8	4.0	4.2	5.2
Other Countries	9.0	8.9	8.9	8.8	8.9	9.1	9.4	9.7	9.8	9.9	10.0	11.1
Total Consumption	49.6	47.4	45.9	45.2	46.1	47.0	48.4	49.7	50.3	50.7	50.9	53.2
Production												
United States	10.8	10.7	10.8	10.8	10.8	10.9	10.9	10.8	10.9	11.0	10.9	10.5
Canada	1.8	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.0
OECD Europe	2.6	2.9	3.4	3.9	4.0	3.9	3.8	3.7	3.5	3.5	3.4	3.6
OPEC	27.7	23.6	19.7	18.6	19.6	20.5	21.7	22.8	23.2	23.3	23.5	24.2
Other Countries	6.3	6.9	7.6	7.9	8.4	8.8	9.2	9.5	9.9	10.3	10.7	12.7
Total Production	49.2	45.8	43.1	42.8	44.5	45.7	47.3	48.6	49.4	49.8	50.2	52.9
Net Exports from Centrally Planned Economies	1.2	1.5	1.7	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.5
Stock Withdrawals and Discrepancies	-0.8	0.2	1.1	0.6	-0.1	-0.3	-0.4	-0.3	-0.3	-0.3	-0.3	-0.1

(1) Includes crude oil, natural gas liquids, refinery gains, hydrogen, and other hydrocarbons.

(2) Includes Puerto Rico and Virgin Islands.

Note: The market economies exclude the Centrally Planned Economies of Eastern Europe (including Yugoslavia), the Soviet Union, China, Cuba, Kampuchea, North Korea, Laos, Mongolia, and Vietnam. Numbers may not add to total because of rounding.

Source: U.S. Energy Information Administration, Annual Energy Outlook

Section I
Table 2

MARKET ECONOMIES ENERGY PROJECTIONS: COMPARISON OF EIA MIDPRICE PROJECTIONS WITH OTHER PROJECTIONS FOR 1985, 1990, AND 1995

(Million Barrels per Day of Oil-Equivalent)

Projection	Consumption		Production		CPE Net
	Energy	Oil	OPEC	Other	Oil Exports
1981 Actual	95	47	24	22	1.5
1985 Projections					
EIA	98	47	21	25	1.6
Tenneco (August 1982)	100	48	NA	NA	NA
IEA, Paris (October 1982)	NA	48-50	23-26	24-25	1.0-(1.0)
Socal (June 1983)	100	47	21	22	NA
PPA/DOE (October 1983)	98	47	23	23	0.7
DRI (Winter 1983)	NA	47	21	24	1.6
Texaco (December 1983)	101	47	21	24	1.5
Conoco (April 1984)	98	46	19	26	1.0
1990 Projections					
EIA	110	51	24	27	1.0
Tenneco (August 1982)	110	50	NA	NA	NA
IEA, Paris (October 1982)	NA	50-56	27-29	23-25	0.0-(2.0)
Socal (June 1983)	113	49	21	22	NA
PPA/DOE (October 1983)	108	51	26	25	0.0
DRI (Winter 1983)	NA	51	25	26	0.3
Texaco (December 1983)	113	50	25	24	0.5
Conoco (April 1984)	108	48	22	25	1.0
1995 Projections					
EIA	119	53	24	29	0.5
Tenneco (August 1982)	118	52	NA	NA	NA
IEA, Paris (October 1982)(3)	NA	54-65	26-29	24-26	0.0-(2.0)
Socal (June 1983)	126	52	24	22	NA
PPA/DOE (October 1983)	118	52	27	25	0.0
DRI (Winter 1983)	NA	54	28	26	(0.6)
Texaco (Winter 1983)(3)	125	52	29	23	0.3
Conoco (April 1984)	118	51	26	25	0.0

NA = Not Available

(1) Excludes 3.7, 3.9, and 4.3 million barrels per day oil-equivalent of natural gas liquids for 1985, 1990, and 1995, respectively.

(2) Includes 0-4 and 4-12 million barrels per day of excess demand for 1990 and 1995, respectively.

(3) Extrapolated from projections for 1990 and 2000.

Note: The market economies exclude the Centrally Planned Economies of Eastern Europe, the Soviet Union, China, Cuba, Kampuchea, North Korea, Laos, Mongolia, and Vietnam. Numbers in parentheses are net imports. Oil consumption and projection numbers may not balance because of rounding.

Source: U.S. Energy Information Administration, Annual Energy Outlook

Section I
Table 3

SELECTED UNITED STATES ECONOMIC, DEMOGRAPHIC, AND ENERGY INDICATORS

Year	Gross National Product (Billion $ 1972)	Population (Millions)	Gross Energy Input[1] (Quadrillion Btu)	Gross Energy Per Dollar of 1972 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	470.3	144.1	33.0	70.2	229.0
1948	489.8	146.6	33.9	69.2	231.2
1949	492.2	149.2	31.5	64.0	211.1
1950	534.8	152.3	34.0	63.6	223.2
1951	579.4	154.9	36.8	63.5	237.6
1952	600.8	157.6	36.5	60.8	231.7
1953	623.6	160.2	37.6	60.3	234.7
1954	616.1	163.0	36.3	58.9	222.7
1955	667.5	165.9	39.7	60.4	239.3
1956	671.6	168.9	41.7	62.1	246.9
1957	683.8	172.0	41.7	61.0	242.2
1958	680.9	174.9	41.7	61.2	238.4
1959	721.7	177.8	43.1	59.7	242.4
1960	737.1	180.7	44.6	60.5	246.8
1961	756.6	183.8	45.3	59.9	246.5
1962	800.3	186.5	47.4	59.2	254.1
1963	832.5	189.2	49.3	59.2	260.5
1964	876.4	191.8	51.2	58.4	266.9
1965	929.3	194.3	53.3	57.4	274.3
1966	984.8	196.6	56.4	57.3	286.9
1967	1,011.4	198.7	58.3	57.6	293.4
1968	1,058,1	200.7	61.7	58.3	307.4
1969	1,087.6	202.7	65.0	59.8	320.7
1970	1,085.6	205.1	67.1	61.8	327.2
1971	1,122.4	207.7	68.3	60.9	328.8
1972	1,185.9	209.9	71.6	60.4	341.1
1973	1,254.0	212.0	74.6	59.5	351.9
1974	1,246.0	213.9	72.7	58.3	339.9
1975	1,232.0	216.0	70.5	57.2	326.4
1976	1,298.0	218.4	74.3	57.2	340.2
1977	1,370.0	220.2	76.2	55.6	346.1
1978	1,439.0	222.6	78.0	54.2	350.4
1979	1,479.0	225.6	78.8	53.3	349.3
1980	1,475.0	227.7	75.9	51.5	333.3
1981	1,514.0	229.3	73.9	48.8	322.3
1982	1,485.0	231.5	70.8	47.7	305.8
1983	1,535.0	234.0	70.6	46.0	301.7

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(1) Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal, including imports or their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

Source: U.S. Bureau of Mines, Press Release, March 14, 1977
U.S. Department of Commerce: U.S. Bureau of Census, Current Population Reports

Section I
Table 4

COMPARISON OF MIDPRICE ENERGY SUPPLY/DEMAND PROJECTIONS FOR 1990
(Quadrillion Btu per Year)

	AEO 1983	AEO 1982(1)	DRI Winter 83/84(2)	Chase IV/84(3)	Wharton Nov 83(4)	NEPP 1983(5
Domestic Energy Supply						
Oil	20.8	19.3	20.0	17.9	18.7	19.0
Natural Gas	16.7	16.4	16.1	15.9	17.9	18.2
Coal	23.1	23.9	21.7	21.9	24.3	24.5
Hydroelectric/ Geothermal/Other	3.3	3.2	3.8	4.0	3.7	3.4
Nuclear Power	6.3	6.3	6.1	4.8	6.2	6.5
Total Domestic Production	70.3	69.1	67.7	64.5	70.8	71.6
Net Imports						
Oil	12.6	15.1	12.5	14.9	14.2	12.4
Natural Gas	1.3	1.2	2.2	2.4	0.8	1.9
Coal, Coke, and Electricity	-2.4	-3.4	-2.8	-2.2	-3.8	-3.2
Total Supply	81.7	82.0	79.7	79.7	82.0	82.7
Consumption						
Residential	9.2	9.3	8.7	9.1	--	10.3
Commercial	7.1	6.9	6.4	6.1	--	7.2
Industrial	22.9	24.1	23.8	23.9	--	25.0
Transportation	19.5	16.9	19.0	19.1	--	16.7
Total End-Use Consumption	58.7	57.2	57.9	58.4	--	59.2

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(1) Industrial total does not include natural gas as a lease and plant fuel.

(2) Industrial total excludes hydroelectric power, solar energy, and exotic energy forms but includes natural gas used for lease and plant fuel and as a raw material. Transportation total excludes natural gas used as a transportation fuel.

(3) Sectoral consumption totals exclude electricity conversion losses. Natural gas used as a pipeline fuel has been from the transportation sector total.

(4) Electricity conversion losses incorporated in Wharton's sectoral energy consumption projections.

(5) Renewable energy consumption has been excluded from residential, commercial, and industry totals. Natural gas used by the transportation sector has been excluded from that sector's total consumption.

(6) Total supply includes adjustments for stock changes, gains, losses, unaccounted-for supply, etc.

Source: U.S. Department of Energy, Annual Energy Outlook 1983.

PROJECTIONS OF U.S. ENERGY DEMAND BY SECTOR FOR 1990
(Quadrillion Btu per Year)

Sector	AEO 1983	AEO 1982	DRI Winter 83/84	Chase IV/84	NEPP 1983(1)
End-Use Consumption					
Residential					
Oil and LPG	1.6	1.9	1.3	1.8	1.9
Natural Gas	4.6	4.3	4.4	4.4	5.3
Coal	0.1	0.1	0.1	0.1	0.1
Electricity	3.0	3.0	2.9	2.9	3.0
Total	9.2	9.3	8.7	9.1	10.3
Commercial					
Oil and LPG	1.3	1.5	0.9	0.9	1.1
Natural Gas	2.9	2.5	2.8	2.6	3.1
Coal	0.1	0.1	0.1	0.2	0.1
Electricity	2.8	2.8	2.5	2.5	2.8
Total	7.1	6.9	6.4	6.1	7.2
Industrial					
Oil and LPG	9.3	10.7	9.2	9.3	9.4
Natural Gas	6.6	6.0(2)	7.2	7.8	8.5
Coal	3.5	3.6	3.8	3.2	3.6
Electricity	3.5	3.8	3.6	3.5	3.5
Total	22.9	24.1	23.8	23.9	25.0
Transportation(3)					
Oil and LPG	19.5	16.9	19.0	19.1	16.7
Electric Utility					
Oil	1.6	4.0	2.2	2.0	2.0
Natural Gas	3.3	2.4	3.0	2.7	2.6
Coal	16.5	16.3	14.6	16.1	17.3
Nuclear Power	6.3	6.3	6.1	4.8	6.5
Other	3.7	3.2	4.3	3.9	3.5
Total	31.4	32.2	30.2	29.5	31.9

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(1) Renewable energy consumption excluded from all but the electric utility sector totals.
(2) Lease and plant fuel excluded from industrial natural gas end-use consumption.
(3) Pipeline gas not included under transportation end-use demand.
(4) Includes hydroelectric, geothermal, and other (woodwastes, solar, wind).

Source: U.S. Department of Energy, Annual Energy Outlook 1983

Section I
Table 6

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)
(Trillion Btu)

Year	Coal(2)	Petroleum(3)	Natural Gas Dry	Hydro-power(4)	Nuclear Power(4)	Total Consumption
1947	15,824	11,367	4,518	1,326	-	33,035
1948	14,897	12,557	5,033	1,393	-	33,880
1949	12,631	12,119	5,289	1,449	-	31,488
1950	12,913	13,489	6,150	1,440	-	33,992
1951	13,225	14,848	7,248	1,454	-	36,775
1952	11,868	15,334	7,760	1,496	-	36,458
1953	11,893	16,098	8,156	1,439	-	37,586
1954	10,195	16,132	8,548	1,388	-	36,263
1955	11,540	17,524	9,232	1,407	-	39,703
1956	11,752	18,627	9,834	1,487	-	41,700
1957	11,168	18,570	10,416	1,551	1	41,706
1958	9,849	19,214	10,995	1,636	2	41,696
1959	9,810	19,747	11,990	1,591	2	43,140
1960	10,140	20,067	12,699	1,657	6	44,569
1961	9,906	20,487	13,228	1,680	18	45,319
1962	10,189	21,267	14,121	1,821	24	47,422
1963	10,714	21,950	14,843	1,767	34	49,308
1964	11,264	22,386	15,648	1,907	35	51,240
1965	11,908	23,242	16,097	2,058	38	53,343
1966	12,495	24,395	17,392	2,073	57	56,412
1967	12,256	25,335	18,250	2,344	80	58,265
1968	12,659	27,052	19,580	2,342	130	61,763
1969	12,733	28,421	21,020	2,659	146	64,979

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Includes anthracite, bituminous, lignite coal, and imported coke.

(3) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

(4) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree and J.A. West: "United States Energy Through The Year 2000," December 1972

Section I
Table 6a

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)

(Trillion Btu)

Year	Coal(2)	Petroleum(3)	Natural Gas Dry	Hydro power(4)	Nuclear Power(4)	Total Consumption
1970	12,698	29,537	22,029	2,650	229	67,143
1971	12,043	30,570	22,469	2,862	404	68,348
1972	12,461	32,966	22,699	2,929	577	71,643
1973	12,978	34,840	22,512	3,010	910	74,288
1974	12,668	33,455	21,732	3,309	1,272	72,548
1975	12,668	32,731	19,948	3,219	1,900	70,551
1976	13,589	35,175	20,345	3,066	2,111	74,366
1977	13,925	37,122	19,931	2,515	2,702	76,292
1978	13,767	37,965	20,000	3,141	3,024	78,091
1979	15,042	37,123	20,666	3,141	2,776	78,900
1980	15,426	34,202	20,391	3,118	2,739	75,955
1981	15,908	31,931	19,926	3,105	3,008	73,989
1982	15,324	30,232	18,507	3,561	3,131	70,842
1983	15,900	30,054	17,352	3,871	3,203	70,497
1984	17,203	31,004	18,031	3,783	3,546	73,730

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Includes anthracite, bituminous, lignite coal, and imported coke.

(3) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

(4) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

(5) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines: Press Release, February 1977
U.S. Department of Energy: 1973-1984: Energy Information Administration, Monthly Energy Review

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal(1)	Petroleum	Natural Gas	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs
1947	17,975	10,771	5,012	1,296	—	35,054
1948	17,158	11,717	5,615	1,369	—	35,859
1949	12,557	10,683	5,911	1,425	—	30,576
1950	14,647	11,449	6,841	1,415	—	34,352
1951	15,066	13,037	8,106	1,424	—	37,633
1952	13,262	13,282	8,705	1,466	—	36,715
1953	12,767	13,671	9,116	1,413	—	36,967
1954	11,001	13,427	9,488	1,360	—	35,276
1955	12,745	14,445	10,532	1,360	—	39,082
1956	13,747	15,344	11,252	1,435	—	41,778
1957	13,444	15,346	11,885	1,422	1	42,098
1958	11,201	14,154	12,244	1,592	2	39,193
1959	11,105	14,662(3)	13,361(3)	1,551(3)	2	40,681
1960	11,140	14,664(4)	14,135(4)	1,608(4)	6	41,553
1961	10,751	15,185	14,691	1,656	18	42,301
1962	11,211	15,495	15,365	1,816	24	43,911
1963	12,176	15,741	16,271	1,768	34	45,990
1964	12,854	15,691	17,138	1,886	35	47,604
1965	13,395	15,930	17,652	2,059	38	49,074
1966	13,836	16,925	18,984	2,062	57	51,864
1967	14,215	81,100	20,087	2,347	80	54,829
1968	13,955	18,593	21,548	2,349	130	56,575
1969	14,223	18,886	22,838	2,648	146	58,741
1970	15,067	20,401	24,154	2,630	229	62,481
1971	13,607	20,033	24,805	2,825	404	61,674
1972	14,500	20,041	24,792	2,866	576	62,775
1973	13,926	19,493	24,756	2,861	910	61,993
1974	14,010	18,575	23,681	3,177	1,272	60,770

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(1) Includes anthracite, bituminous and lignite coals.
(3) Includes Alaska
(4) Denotes first year for which figures include Alaska and Hawaii

Source: U.S. Department of Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Press Release

Section I
Table 7a

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal[1]	Petroleum	Natural Gas[2]	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs(3)
1975	14,995	17,729	22,014	3,155	1,900	59,865
1976	15,659	17,262	21,807	2,976	2,111	59,896
1977	15,758	17,454	21,892	2,333	2,702	60,222
1978	14,912	18,434	21,730	2,937	3,024	61,106
1979	17,549	18,104	22,362	2,931	2,776	63,810
1980	18,600	18,249	22,161	2,900	2,739	64,764
1981	18,379	18,146	22,006	2,758	3,008	64,424
1982	18,641	18,309	20,446	3,256	3,131	63,892
1983	17,252	18,392	18,714	3,502	3,203	61,196
1984	19,696	18,590	20,117	3,386	3,546	65,508

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(1) Includes anthracite, bituminous and lignite coals.
(2) Includes natural gas plant liquids
(3) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of Energy, Energy Information Administration: Monthly Energy Review

Section I
Table 8

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR(1)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electrical Generation	Miscellaneous and Un-Accounted for	Total Consumption(2)
1947	6,775	12,795	8,791	4,264	410	33,035
1948	7,039	12,322	8,781	4,725	1,014	33,880
1949	6,884	11,369	8,075	4,616	544	31,488
1950	7,593	12,325	8,616	4,981	477	33,992
1951	7,857	13,698	9,206	5,281	733	36,775
1952	7,979	13,098	9,168	5,518	695	36,458
1953	7,757	13,752	9,205	5,891	981	37,586
1954	7,968	12,515	9,113	5,940	727	36,263
1955	8,595	13,991	9,826	6,595	696	39,703
1956	8,963	14,588	10,132	7,082	935	41,700
1957	8,685	14,503	10,229	7,330	959	41,706
1958	9,467	13,507	10,275	7,317	1,130	41,696
1959	9,711	14,040	10,387	7,873	1,129	43,140
1960	10,174	14,642	10,818	8,263	672	44,569
1961	10,373	14,631	10,986	8,537	792	45,319
1962	10,948	15,249	11,415	9,093	717	47,422
1963	11,016	15,908	11,962	9,683	739	49,308
1964	11,143	16,698	12,261	10,375	763	51,240
1965	11,830	17,176	12,714	11,075	548	53,343
1966	12,388	18,028	13,345	12,054	597	56,412
1967	13,015	18,230	14,015	12,728	278	58,265
1968	13,109	19,363	15,156	13,892	243	61,763
1969	13,606	20,107	15,784	15,254	228	64,979
1970	13,988	20,225	16,473	16,242	215	67,143
1971	14,549	19,299	17,076	17,222	205	68,348
1972	14,917	19,835	18,081	18,543	233	71,609
1973	12,275	23,477	18,567	19,852	NA	74,212
1974	11,774	22,560	18,082	20,023	NA	72,479

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(2) Data may not add to totals because of independent rounding.

SOURCE: U.S. Department of the Interior:
1947-1969: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000," December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1974: U.S. Department of Energy, Monthly Energy Review

Section I
Table 8a

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR(1)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electrical Generation	Miscellaneous and Un-Accounted for	Total Consumption(2)
1975	11,598	20,398	18,205	20,350	NA	70,551
1976	12,252	21,474	19,058	21,574	NA	74,366
1977	11,875	21,924	19,773	22,713	NA	76,292
1978	11,908	21,899	20,558	23,724	NA	78,091
1979	11,525	22,816	20,429	24,128	NA	78,900
1980	10,721	21,073	19,656	24,505	NA	75,955
1981	10,047	19,728	19,458	24,760	NA	73,989
1982	10,073	17,477	19,029	24,259	NA	70,842
1983	9,544	16,912	19,109	24,929	NA	70,497
1984	9,574	18,274	19,826	26,054	NA	73,730

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(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(2) Data may not add to totals because of independent rounding and consumption of geothermal power and electricity produced from wood, waste and wind energy.

SOURCE: U.S. Department of Energy, Monthly Energy Review

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UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	273,403	7,298	418.3	2,490	2,905,571	3,007	135	459	13,254
1948	244,214	6,516	427.0	2,530	3,164,928	3,276	147	500	12,822
1949	208,919	5,571	415.6	2,466	3,219,197	3,332	142	485	11,854
1950	223,507	5,957	442.4	2,641	3,601,757	3,727	164	559	12,884
1951	238,776	6,403	516.1	3,044	4,107,117	4,251	192	656	14,354
1952	211,146	5,673	515.0	3,034	4,242,986	4,391	200	682	13,780
1953	226,865	6,105	524.7	3,093	4,389,128	4,554	224	765	14,517
1954	179,148	4,860	529.8	3,118	4,383,197	4,537	235	802	13,317
1955	214,946	5,726	566.7	3,330	4,768,562	4,935	295	1,008	14,999
1956	217,810	5,805	626.6	3,688	4,922,139	5,095	326	1,113	15,701
1957	213,404	5,695	595.8	3,478	5,150,413	5,330	332	1,133	15,636
1958	175,600	4,675	570.3	3,292	5,352,294	5,540	323	1,102	14,609
1959	169,924	4,530	625.1	3,589	5,720,756	5,921	356	1,215	15,255
1960	175,225	4,673	643.9	3,682	6,074,114	6,287	383	1,306	15,948
1961	168,090	4,478	642.6	3,682	6,221,668	6,471	383	1,306	15,937
1962	169,995	4,527	678.8	3,880	6,579,008	6,842	411	1,402	16,651
1963	178,201	4,754	702.0	3,994	6,917,738	7,160	429	1,464	17,372
1964	189,561	5,063	744.6	4,184	7,198,706	7,451	453	1,544	18,242
1965	200,688	5,366	740.4	4,139	7,433,200	7,671	479	1,634	18,810
1966	204,945	5,472	781.0	4,353	7,948,486	8,203	524	1,788	19,816
1967	194,595	5,199	798.4	4,432	8,332,614	8,599	547	1,868	20,098
1968	191,602	5,124	897.2	4,965	8,987,095	9,274	599	2,044	21,407
1969	188,586	5,051	943.6	5,171	9,587,670	9,885	632	2,155	22,262

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

Year	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	186,637	5,002	940.4	5,061	9,856,844	10,161	648	2,210	22,434
1971	158,866	4,303	947.9	5,088	9,577,212	9,874	682	2,327	21,592
1972	160,624	4,275	1,058.2	5,643	9,622,659	9,882	741	2,528	22,328
1973	162,888	4,059	1,637.6	9,113	10,184,314	10,388	698	2,376	25,927
1974	155,984	3,872	1,570.9	8,698	9,768,555	10,003	695	2,370	24,999(4)
1975	148,081	3,669	1,474.8	8,151	8,364,706	8,532	697	2,378	22,744(4)
1976	147,168	3,663	1,629.0	9,018	8,597,645	8,761	764	2,606	24,047
1977	139,800	3,456	1,762.6	9,786	8,474,975	8,636	796	2,715	24,606(4)
1978	135,240	3,315	1,783.3	9,890	8,404,528	8,539	819	2,793	24,660(4)
1979	145,860	3,594	1,952.7	10,576	8,397,839	8,549	852	2,907	25,689(4)
1980	127,510	3,156	1,771.6	9,524	8,198,242	8,394	825	2,814	23,854
1981	128,866	3,158	1,562.1	8,295	8,055,610	8,257	835	2,850	22,545
1982	105,407	2,552	1,481.9	7,798	6,935,673	7,116	756	2,575	20,019
1983	103,277	2,490	1,436.2	7,583	6,616,877	6,822	786	2,681	19,560
1984	119,521	2,896	1,519.7	7,971	7,162,949	7,385	851	2,905	21,146

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

(4) Total includes small amounts of imported coke.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1984: Energy Information Administration, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	128,657	3,399	385.3	2,251	1,087,000	1,125	115	391	7,166
1948	122,994	3,238	436.0	2,539	1,219,402	1,262	130	442	7,481
1949	114,639	3,025	425.5	2,472	1,340,362	1,387	143	488	7,372
1950	110,422	2,913	526.2	3,038	1,586,207	1,642	160	546	8,139
1951	100,057	2,648	552.0	3,202	1,939,034	2,007	180	615	8,472
1952	91,212	2,416	577.1	3,350	2,137,635	2,213	195	666	8,645
1953	77,976	2,072	585.4	3,391	2,216,153	2,294	215	733	8,490
1954	65,425	1,752	630.4	3,650	2,478,205	2,566	234	797	8,765
1955	66,039	1,745	691.7	4,001	2,753,171	2,849	250	854	9,449
1956	61,685	1,629	721.8	4,183	3,044,435	3,151	274	935	9,898
1957	46,382	1,225	703.4	4,069	3,276,185	3,391	299	1,019	9,704
1958	45,005	1,187	788.3	4,568	3,586,025	3,712	321	1,095	10,562
1959	36,700	969	817.5	4,718	3,887,708	4,024	353	1,203	10,914
1960	37,180	983	853.3	4,923	4,123,389	4,268	370	1,262	11,436
1961	32,805	868	871.9	5,028	4,325,427	4,477	406	1,385	11,758
1962	32,955	872	907.7	5,227	4,685,231	4,849	437	1,490	12,438
1963	27,603	731	915.0	5,258	4,856,804	5,027	482	1,645	12,661
1964	22,949	609	903.7	5,191	5,162,009	5,343	525	1,792	12,935
1965	25,676	678	978.0	5,635	5,346,450	5,517	571	1,948	13,778
1966	25,587	677	1,000.1	5,766	5,760,999	5,945	616	2,101	14,489
1967	22,134	585	1,078.9	6,206	6,029,855	6,223	661	2,257	15,271
1968	19,983	529	1,069.5	6,129	6,250,997	6,451	723	2,467	15,576
1969	16,875	447	1,099.6	6,269	6,682,804	6,890	807	2,752	16,358

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West. "United States Energy Through The Year 2000," December 1972

Section I
Table 10a

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	16,114	427	1,128.4	6,453	6,984,007	7,108	879	3,000	16,988
1971	15,201	406	1,124.9	6,430	7,480,667	7,713	940	3,209	17,758
1972	11,708	308	1,168.4	6,666	7,733,964	7,943	1,019	3,478	18,395
1973	10,580	259	815.1	4,391	7,476,470	7,626	1,024	3,495	15,770
1974	10,664	260	743.2	3,996	7,341,797	7,518	1,018	3,475	15,249
1975	8,706	212	710.2	3,805	7,432,352	7,581	1,056	3,604	15,202
1976	8,425	206	776.7	4,181	7,719,333	7,866	1,098	3,747	15,999
1977	8,508	207	780.5	4,206	7,321,884	7,461	1,159	3,955	15,830
1978	8,914	215	756.2	4,070	7,503,937	7,624	1,206	4,116	16,024
1979	7,759	188	630.2	3,448	7,751,473	7,891	1,226	4,184	15,709
1980	6,037	147	555.0	3,035	7,347,953	7,539	1,276	4,355	15,076
1981	7,081	171	487.0	2,634	7,065,366	7,242	1,314	4,497	14,544
1982	7,901	189	454.2	2,449	7,244,639	7,433	1,338	4,566	14,639
1983	8,171	197	433.0	2,322	6,812,803	7,024	1,372	4,681	14,225
1984	8,915	216	464.2	2,444	6,705,141	6,913	1,437	4,904	14,478

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes bunkers and military transportation
(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1970: U.S. Bureau of Mines, Minerals Yearbook 1972
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1984: U.S. Department of Energy, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	113,324	3,030	1,050.3	5,761	Neg.	—	8	29	8,820
1948	98,295	2,624	1,126.6	6,157	Neg.	—	8	27	8,808
1949	70,915	1,892	1,137.8	6,183	Neg.	—	7	25	8,100
1950	63,783	1,701	1,248.8	6,785	125,546	130	7	24	8,640
1951	56,903	1,525	1,377.5	7,482	192,496	199	7	23	9,229
1952	40,428	1,086	1,451.3	7,868	207,207	214	6	22	9,190
1953	30,074	809	1,511.5	8,158	230,314	238	6	20	9,225
1954	19,060	516	1,551.4	8,358	230,615	239	6	18	9,131
1955	17,429	464	1,691.4	9,109	245,246	253	6	19	9,845
1956	14,187	378	1,756.2	9,448	295,972	306	5	17	10,149
1957	10,126	270	1,832.0	9,649	299,235	310	4	15	10,244
1958	5,015	133	1,825.1	9,819	312,221	323	5	16	10,291
1959	3,861	102	1,849.4	9,923	349,348	362	5	17	10,404
1960	3,294	37	1,934.1	10,372	347,075	359	5	18	10,836
1961	770	21	1,971.9	10,575	377,607	390	6	19	11,005
1962	687	18	2,051.3	11,001	382,496	396	5	18	11,433
1963	670	18	2,146.7	11,506	423,783	438	6	19	11,981
1964	711	19	2,198.9	11,791	435,570	451	6	20	12,281
1965	655	18	2,271.9	12,179	500,524	517	5	18	12,732
1966	609	16	2,382.6	12,777	535,353	552	5	16	13,361
1967	467	13	2,497.1	13,408	575,752	594	5	17	14,032
1968	417	11	2,703.8	14,535	590,965	610	5	18	15,174
1969	313	8	2,815.8	15,125	630,962	651	5	17	15,801

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(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior. W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972.

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL(1)		PETROLEUM(2)		NATURAL GAS		ELECTRICITY PURCHASED(3)		TOTAL ENERGY INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1970	298	8	2,923.8	15,720	772,166	745	5	16	16,489
1971	207	6	3,035.1	16,304	742,592	766	5	17	17,093
1972	163	4	3,217.5	17,290	766,156	787	5	17	18,098
1973	112	3	3,302.0	17,821	728,431	743	3	9	18,576
1974	38	2	2,931.6	17,396	668,945	685	3	9	18,091
1975	0	1	3,265.9	17,610	583,333	595	3	10	18,215
1976	0	0	3,428.3	18,499	548,577	559	3	10	19,068
1977	0	0	3,559.2	19,230	532,875	543	3	10	19,783
1978	0	0	3,702.4	20,019	530,512	539	3	9	20,567
1979	0	0	3,649.5	19,817	601,179	612	3	10	20,439
1980	0	0	3,494.3	19,009	632,813	648	3	11	19,667
1981	0	0	3,459.7	18,800	640,976	657	3	11	19,469
1982	0	0	3,396.0	18,417	596,304	613	3	11	19,040
1983	0	0	3,435.2	18,605	488,846	504	3	11	19,120
1984	0	0	3,559.3	19,302	508,244	524	3	11	19,837

(1) Includes anthracite, bituminous, and lignite coals

(2) Includes bunkers and military transportation

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1984: Energy Information Administration, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

	COAL[1]		PETROLEUM		NATURAL GAS		HYDROPOWER[2]		NUCLEAR POWER		TOTAL ENERG INPUTS
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1947	89,531	2,084	75.5	468	373,037	386	84,981	1,326	—	—	4,264
1948	99,586	2,392	71.7	444	478,097	495	88,535	1,393	—	—	4,724
1949	83,964	2,021	92.7	577	550,121	569	96,361	1,449	—	—	4,616
1950	91,871	2,228	106.3	662	628,919	651	102,671	1,440	—	—	4,981
1951	105,768	2,537	80.1	499	763,898	791	106,554	1,454	—	—	5,281
1952	107,071	2,588	78.8	492	910,117	942	111,977	1,496	—	—	5,518
1953	115,883	2,805	92.3	577	1,034,272	1,070	111,625	1,439	—	—	5,891
1954	118,401	2,866	76.8	480	1,165,498	1,206	113,980	1,388	—	—	5,940
1955	143,759	3,482	81.9	512	1,153,280	1,194	120,304	1,407	—	—	6,595
1956	158,279	3,815	79.4	497	1,239,311	1,283	129,775	1,487	—	—	7,082
1957	160,761	3,881	81.9	512	1,338,079	1,385	136,959	1,551	10	1	7,330
1958	155,714	3,743	82.4	515	1,372,853	1,421	147,581	1,636	165	2	7,317
1959	168,427	4,050	87.2	546	1,627,097	1,684	145,002	1,591	188	2	7,873
1960	176,633	4,251	90.1	564	1,724,763	1,785	153,958	1,657	518	6	8,263
1961	182,138	4,374	92.1	577	1,825,341	1,889	157,754	1,680	1,692	17	8,537
1962	193,128	4,636	92.4	579	1,965,590	2,034	172,458	1,821	2,270	23	9,093
1963	211,193	5,065	95.7	600	2,142,930	2,218	168,573	1,767	3,212	33	9,683
1964	225,271	5,395	101.4	636	2,321,889	2,403	182,258	1,907	3,341	34	10,375
1965	244,887	5,843	118.6	744	2,318,253	2,392	196,843	2,058	3,657	38	11,075
1966	266,394	6,327	144.2	905	2,608,768	2,692	199,030	2,073	5,520	57	12,054
1967	273,970	6,457	161.3	1,013	2,746,352	2,834	224,650	2,344	7,655	80	12,728
1968	296,942	6,994	188.0	1,181	3,143,858	3,245	225,242	2,342	12,528	130	13,892
1969	310,310	7,227	259.8	1,628	3,486,391	3,594	254,540	2,659	13,928	146	15,254
1970	322,357	7,261	333.8	2,087	3,894,019	4,015	252,571	2,650	21,801	229	16,242
1971	327,926	7,330	407.1	2,543	3,992,983	4,117	269,899	2,828	37,899	404	17,222
1972	350,196	7,836	503.7	3,134	3,978,673	4,086	280,470	2,911	54,032	576	18,543
1973	388,321	8,658	587.4	3,515	3,605,333	3,748	285,975	2,975	83,292	910	19,806
1974	391,566	8,535	559.9	3,365	3,429,231	3,519	313,733	3,276	113,602	1,272	19,967

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(1) Includes anthracite, bituminous, and lignite coals
(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments

Source: U.S. Department of the Interior: 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Minerals Yearbook 1975

Section I
Table 12a

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

	COAL(1)		PETROLEUM		NATURAL GAS		HYDROPOWER(2)		NUCLEAR POWER		TOTAL ENERGY INPUTS(3)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1975	405,633	8,786	506.6	3,166	3,158,869	3,240	306,266	3,187	172,523	1,900	20,350
1976	448,133	9,720	556.2	3,477	3,082,111	3,152	292,297	3,032	191,093	2,111	21,574
1977	477,125	10,262	624.3	3,901	3,192,420	3,284	237,853	2,482	250,905	2,702	22,713
1978	481,222	10,238	637.8	3,987	3,188,588	3,297	300,164	3,110	284,210	3,024	23,724
1979	527,242	11,260	524.6	3,283	3,490,821	3,613	300,106	3,107	255,171	2,776	24,128
1980	569,289	12,123	421.2	2,634	3,681,159	3,810	296,918	3,085	251,128	2,739	24,505
1981	596,572	12,583	351.9	2,202	3,640,580	3,768	293,887	3,072	272,711	3,008	24,760
1982	593,491	12,582	250.6	1,568	3,225,869	3,342	338,482	3,528	282,760	3,131	24,259
1983	625,231	13,213	246.8	1,544	2,910,680	2,998	367,449	3,838	293,718	3,203	24,929
1984	664,310	14,092	205.9	1,287	3,112,621	3,206	359,023	3,750	233,471	3,546	26,054

(1) Includes anthracite, bituminous, and lignite coals
(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments
(3) Total includes small amounts of geothermal power and electricity from wood and waste

Source: U.S. Department of Energy: Monthly Energy Review

Section I
Table 13

WORLD PRIMARY ENERGY PRODUCTION(1)
Quadrillion Btu

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Canada	9.50	9.38	8.89	8.73	9.16	9.26	9.95	10.13	9.86	9.99	10.27
Mexico	1.87	2.15	2.44	2.76	3.16	3.79	4.55	5.85	6.85	7.89	7.95
United States	61.95	60.72	59.73	59.80	60.06	60.98	63.66	64.59	64.25	63.74	61.04
Total North America	73.32	72.25	71.06	71.30	72.38	74.02	78.16	80.58	80.96	81.62	79.26
Venezuela	8.13	7.29	5.90	5.79	5.70	5.49	5.94	5.66	5.56	5.14	4.85
Total Central & South America	12.85	12.09	10.62	10.78	11.00	11.39	12.36	12.14	12.06	11.91	11.94
France	1.78	1.82	1.88	1.71	2.00	2.02	2.03	2.26	2.75	2.72	3.08
West Germany	4.92	4.95	4.87	4.96	4.96	4.97	5.26	5.25	5.38	5.46	5.34
Italy	1.06	1.07	1.08	1.11	1.15	1.13	1.10	1.07	1.12	1.13	1.08
Netherlands	2.52	2.86	3.16	3.44	2.90	2.49	2.69	3.33	3.11	2.67	2.84
Norway	.83	.88	1.22	1.50	1.49	2.10	2.71	3.06	3.12	3.20	3.56
United Kingdom	4.66	4.47	4.97	5.49	6.69	7.31	8.41	8.56	8.91	9.51	9.98
Total Western Europe	19.58	20.01	21.36	22.29	23.90	24.81	27.40	28.66	29.90	30.55	32.01
Iran	13.27	13.68	12.23	13.43	12.88	11.93	7.44	3.87	3.21	5.04	5.62
Iraq	4.35	4.25	4.89	5.25	5.08	5.44	7.37	5.36	2.13	2.16	2.14
Kuwait	6.75	5.67	4.68	4.85	4.47	4.87	5.68	3.87	2.63	1.95	2.52
Saudi Arabia	16.63	18.68	15.68	18.95	20.57	18.48	21.25	22.31	22.11	14.72	11.57
United Arab Emirates	3.27	3.56	3.56	4.20	4.45	4.09	4.11	3.89	3.45	2.99	2.82
Total Middle East	46.61	48.33	43.58	49.20	49.84	47.21	48.42	41.73	35.93	29.14	26.98
Algeria	2.47	2.35	2.34	2.63	2.68	3.22	3.15	2.91	2.61	2.71	3.05
Libya	4.72	3.32	3.27	4.26	4.53	4.36	4.59	3.98	2.57	2.58	2.43
Nigeria	4.45	4.89	3.88	4.51	4.50	4.06	4.95	4.43	3.15	2.83	2.71
South Africa	1.48	1.57	1.65	1.84	2.03	2.15	2.53	2.86	3.22	3.38	3.59
Total Africa	14.81	13.93	13.19	15.39	16.39	16.47	18.08	17.54	14.88	15.10	15.72
Australia	3.25	3.44	3.64	3.99	4.08	4.20	4.68	4.64	5.16	4.88	5.03
China	13.14	14.25	15.11	15.93	16.77	18.74	19.23	19.01	18.78	19.87	20.14
India	2.22	2.36	2.68	2.84	2.90	3.09	3.15	3.15	3.79	4.08	4.02
Indonesia	2.90	2.99	2.90	3.38	3.85	3.72	3.84	4.12	4.22	3.66	3.85
Total Far East & Oceania	26.17	28.04	29.71	31.92	33.32	35.88	37.64	38.32	39.23	40.18	41.16
Poland	4.94	5.09	5.37	5.59	5.81	6.02	6.21	6.03	5.10	5.81	5.87
USSR	39.28	41.77	43.62	46.16	48.43	50.68	52.42	54.41	55.35	57.14	58.23
Total Eastern Europe & USSR	51.44	54.17	56.51	59.51	62.23	64.58	66.75	68.68	68.89	71.72	73.08
TOTAL WORLD	244.78	248.81	246.03	260.40	269.06	274.35	288.82	287.64	281.84	280.22	280.14

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(1) Includes only crude oil, lease condensate, natural gas plant liquids, dry natural gas, coal, net hydroelectric power and net nuclear power.

Source: Department of Energy, Energy Information Administration, International Energy Annual

Section I
Table 14

WORLD COAL PRODUCTION(1)
Million Short Tons

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Canada	23	23	28	28	32	34	33	40	44	47	49
Mexico	5	6	6	6	7	7	8	8	8	8	8
United States	599	610	655	685	697	670	781	830	824	838	785
Total North America	626	639	688	719	736	711	822	878	876	894	843
Total Central & South America	8	9	9	10	10	10	16	16	14	17	18
West Germany	238	244	238	247	229	228	239	239	241	247	237
United Kingdom	143	121	142	137	135	136	135	141	138	137	128
Yugoslavia	36	37	39	41	43	44	46	52	58	60	60
Total Western Europe	508	488	509	518	506	509	529	543	561	579	564
South Africa	69	73	77	85	94	100	114	127	144	151	161
Total Africa	75	78	82	91	100	106	121	133	149	157	169
Australia	94	100	105	117	119	124	139	140	159	150	151
China	520	548	570	586	606	681	698	684	683	734	738
India	89	96	109	116	115	116	118	125	142	148	142
Total Middle East, Far East & Oceania	800	842	890	921	942	1,026	1,062	1,061	1,098	1,148	1,146
Czechoslovakia	120	122	127	130	134	136	137	136	137	139	140
East Germany	272	269	272	273	280	279	282	265	294	304	308
Poland	216	222	233	241	250	258	264	254	219	250	258
USSR	736	755	773	784	796	798	792	790	776	792	789
Total Eastern Europe & USSR	1,431	1,454	1,494	1,513	1,546	1,560	1,571	1,566	1,529	1,593	1,610
TOTAL WORLD	3,447	3,511	3,673	3,772	3,841	3,922	4,121	4,197	4,228	4,389	4,349

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(1) Includes anthracite, subanthracite, bituminous, subbituminous, lignite and brown coal.

Source: Department of Energy, Energy Information Administration, International Energy Annual

BASIC PETROLEUM DATA BOOK

SECTION II. RESERVES, CRUDE OIL

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ESTIMATED PROVED WORLD RESERVES OF CRUDE OIL
ANNUALLY AS OF JANUARY 1
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World
1948	21,487,685	125,000	10,085,000	31,697,685	28,550,000	100,000	1,300,000	50,000	61,697,685	6,500,000	68,197,685
1949	23,280,444	500,000	10,680,000	34,660,444	32,621,000	122,000	1,372,000	179,000	68,954,444	4,645,000	73,599,444
1950	24,649,489	1,200,000	11,400,800	37,250,289	32,413,000	202,500	1,557,000	288,950	71,711,739	4,741,000	76,452,739
1951	25,268,398	1,202,607	11,525,000	37,996,005	41,567,000	188,000	1,765,000	445,400	81,961,405	7,965,000	89,926,405
1952	27,468,031	1,376,600	12,710,850	41,555,481	51,320,000	175,000	1,965,500	501,500	95,517,481	7,927,000	103,444,481
1953	27,960,554	1,679,509	11,883,500	41,523,563	64,825,000	163,000	2,062,000	472,700	109,046,263	9,408,000	118,454,263
1954	28,944,828	1,845,422	13,182,000	43,972,250	78,160,000	158,000	2,583,000	641,500	125,514,750	9,455,000	134,969,750
1955	29,560,746	2,207,614	14,356,000	46,124,360	97,459,000	112,000	2,708,000	1,049,200	147,452,560	10,047,000	157,499,560
1956	30,012,170	2,509,534	15,515,000	48,036,704	126,271,000	169,000	3,000,000	1,261,000	178,737,704	10,833,000	189,570,704
1957	30,434,649	2,849,370	17,474,000	50,758,019	144,470,000	285,000	6,140,000	1,305,000	202,958,019	25,000,000	227,958,019
1958	30,300,405	2,874,454	21,003,500	54,178,359	169,566,000	814,000	8,578,000	1,304,000	234,440,359	26,200,000	260,640,359
1959	30,535,917	3,165,904	21,843,000	55,544,821	173,951,000	4,118,500	9,646,500	1,437,000	244,697,821	27,705,000	272,402,821
1960	31,719,347	3,497,124	24,435,600	59,652,071	181,436,000	7,273,500	10,175,500	1,496,000	260,033,071	30,002,000	290,035,071
1961	31,613,211	3,678,542	25,061,800	60,353,553	183,160,000	8,099,500	10,906,500	1,722,000	264,241,553	33,502,000	297,743,553
1962	31,758,505	4,173,569	24,706,000	60,638,074	188,204,000	9,709,500	10,867,600	1,736,000	271,155,174	34,252,000	305,407,174
1963	31,389,223	4,480,702	24,225,500	60,095,425	193,975,000	12,345,500	11,331,100	1,791,000	279,538,025	29,976,000	309,514,025
1964	30,969,990	4,881,492	24,305,000	60,156,482	207,368,000	16,375,500	11,621,200	1,925,600	297,446,782	29,500,000	326,946,782
1965	30,990,510	6,177,546	25,525,000	62,693,056	212,180,000	19,395,600	11,613,700	2,035,600	307,917,956	30,750,000	338,667,956
1966	31,352,391	6,711,237	25,170,500	63,234,128	215,360,000	23,049,000	11,008,750	2,085,000	314,736,878	33,377,000	348,118,878
1967	31,452,127	7,791,751	27,100,300	66,344,178	235,614,600	32,355,500	11,808,472	1,924,500	348,047,250	33,838,000	381,885,250
1968	31,376,670	8,168,924	26,907,250	66,452,844	249,209,000	42,285,250	11,815,945	2,017,000	371,780,039	35,773,000	407,553,039
1969	30,707,117	8,381,613	28,782,775	67,871,505	270,760,000	44,568,800	13,720,200	1,937,000	398,857,505	55,877,000	454,734,505
1970	29,631,862	8,619,805	29,179,750	67,431,417	333,506,000	54,679,500	13,138,150	1,779,000	470,534,067	60,000,000	530,534,067
1971	39,001,335 (1)	8,558,980	26,185,250	73,745,565	344,574,900	74,757,520	14,408,648	3,708,500	511,195,133	100,000,000	611,195,133
1972	38,062,957 (1)	8,333,087	31,558,750	77,954,794	367,386,000	58,886,200	15,604,500	14,222,000	534,053,494	98,500,000	632,553,494
1973	36,339,408 (1)	8,020,141	32,601,750	76,961,299	355,852,000	106,402,000	14,922,260	12,082,000	566,219,559	98,000,000	664,219,559
1974	35,299,839 (1)	7,674,150	31,640,250	74,614,239	350,162,500	67,303,750	15,635,040	15,990,950	523,706,479	103,000,000	626,706,479
1975	34,249,956 (1)	7,171,229	40,578,000	81,999,185	403,858,200	68,299,450	21,047,700	25,814,000	601,018,535	111,400,000	712,418,535
1976	32,682,127 (1)	6,653,002	35,368,000	74,703,129	368,410,570	65,085,220	21,234,230	25,487,700	554,920,849	103,000,000	657,920,849
1977	30,942,166	6,247,082	29,608,950	66,808,198	367,681,220	60,570,200	19,391,140	24,538,810	538,989,568	101,100,000	640,089,568
1978	29,486,402	5,970,872	40,270,000	75,827,274	366,166,000	59,200,150	19,749,270	26,862,500	547,805,194	98,000,000	645,805,194
1979	27,803,760	6,860,000	41,246,500	75,910,260	369,996,000	57,892,125	20,007,200	23,966,000	547,771,585	94,000,000	641,771,585
1980	27,051,289	6,800,000	56,472,500	90,323,789	361,947,300	57,072,100	19,355,200	23,476,400	522,174,789	90,000,000	642,174,789
1981	29,805,000	6,400,000	69,489,837	105,694,837	362,071,000	55,148,375	19,630,500	23,085,000	565,629,712	86,300,000	651,929,712
1982	29,426,000	7,300,000	84,982,270	121,708,270	362,839,950	56,171,630	19,150,800	24,634,500	584,505,150	85,845,000	670,350,150
1983	27,858,000	7,020,000	78,482,066	113,360,066	369,285,893	57,821,690	19,756,077	22,923,680	583,147,406	85,115,000	668,262,406
1984	27,735,000	6,730,000	81,675,900	116,140,900	370,100,800	56,907,020	18,969,400	23,019,480	585,137,600	84,600,000	669,737,600
1985	27,300,000	7,075,000	83,315,700	117,690,700	398,380,750	55,540,550	18,529,900	24,425,500	614,567,400	84,100,000	698,667,400

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(1) Figures include 9.6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.

Source: 1948-1980—United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
1981-1984—United States, U.S. Energy Information Administration
Canada, Canadian Petroleum Association (1952-1980)
Rest of the World, Oil and Gas Journal, "Worldwide Oil" Issues

Section II
Table 2

THE RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions and Discoveries, During Year	Production During Year (1)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1947	20,873,560	2,464,570	1,850,445	21,487,685	11.6
1948	21,487,685	3,795,207	2,002,448	23,280,444	11.6
1949	23,280,444	3,187,845	1,818,800	24,649,489	13.6
1950	24,649,489	2,562,685	1,943,776	25,268,398	13.0
1951	25,268,398	4,413,954	2,214,321	27,468,031	12.4
1952	27,468,031	2,749,288	2,256,765	27,960,554	12.4
1953	27,960,554	3,296,130	2,311,856	28,944,828	12.5
1954	28,944,828	2,873,037	2,257,119	29,560,746	13.1
1955	29,560,746	2,870,724	2,419,300	30,012,170	12.4
1956	30,012,170	2,974,336	2,551,857	30,434,649	11.9
1957	30,434,649	2,424,800	2,559,044	30,300,405	11.8
1958	30,300,405	2,608,242	2,372,730	30,535,917	12.9
1959	30,535,917	3,666,745	2,483,315	31,719,347	12.8
1960	31,719,347	2,365,328	2,471,464	31,613,211	12.8
1961	31,613,211	2,657,567	2,512,273	31,758,505	12.6
1962	31,758,505	2,180,896	2,550,178	31,389,223	12.3
1963	31,389,223	2,174,110	2,593,343	30,969,990	11.9
1964	30,969,990	2,664,767	2,644,247	30,990,510	11.7
1965	30,990,510	3,048,079	2,686,198	31,352,391	11.7
1966	31,352,391	2,963,978	2,864,242	31,452,127	11.0
1967	31,452,127	2,962,122	3,037,579	31,376,670	10.3
1968	31,376,670	2,454,635	3,124,188	30,707,117	9.8
1969	30,707,117	2,120,036	3,195,291	29,631,862	9.3
1970	29,631,862	12,688,918 (2)	3,319,445	39,001,335 (2)	11.7 (2)
1971	39,001,335 (2)	2,317,732	3,256,110	38,062,957 (2)	11.7 (2)
1972	38,062,957 (2)	1,557,848	3,281,397	36,339,408 (2)	11.1 (2)
1973	36,339,408 (2)	2,145,831	3,185,400	35,299,839 (2)	11.1 (2)
1974	35,299,839 (2)	1,993,573	3,043,456	34,249,956 (2)	11.3 (2)

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(1) Production is the amount originally estimated and used by API in prior reserves reports.
(2) Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968).

Source: American Petroleum Institute, Committee on Reserves and Productive Capacity.

THE RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions and Discoveries, During Year	Production During Year (1)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1975	34,249,956(2)	1,318,463	2,886,292	32,682,127(2)	11.3(2)
1976	32,682,127(2)	1,085,291	2,825,252	30,942,166(2)	11.0(2)
1977	30,942,166	1,403,780	2,859,544	29,486,402	10.3
1978	29,486,402	1,347,616	3,029,898	27,803,760	9.2
1979	27,803,760	2,205,673	2,958,144	27,051,289	9.1
1980	29,810,000	2,970,000	2,975,000	29,805,000	10.0
1981	29,805,000	2,570,000	2,949,000	29,426,000	10.0
1982	29,426,000	1,382,000	2,950,000	27,858,000	9.4
1983	27,858,000	2,897,000	3,020,000	27,735,000	9.2

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(1) Production is the amount originally estimated and used by API in prior reserves reports (through 1979).
(2) Figures include approximately 10.0 billion barrels located in Prudhoe Bay, Alaska.

Source: American Petroleum Institute, Committee on Reserves
1980-1983: U.S. Department of Energy, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

Section II
Table 3a

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1975	Nation	1976	Nation	1977
1. Saudi Arabia(1)	164,500,000	1. Saudi Arabia(1)	148,600,000	1. Saudi Arabia(1)	151,400,000
2. U.S.S.R.	83,400,000	2. U.S.S.R.	80,400,000	2. U.S.S.R.	78,100,000
3. Kuwait(1)	72,800,000	3. Kuwait(1)	68,000,000	3. Kuwait(1)	67,400,000
4. Iran	66,000,000	4. Iran	64,500,000	4. Iran	63,000,000
5. Iraq	35,000,000	5. Iraq	34,300,000	5. Iraq	34,000,000
6. United States	34,249,956	6. United States	32,682,127	6. United Arab Emirates	31,200,000
7. United Arab Emirates	33,920,000	7. United Arab Emirates	32,200,000	7. United States	30,942,166
8. Libya	26,600,000	8. Libya	26,100,000	8. Libya	25,500,000
9. People's Republic of China	25,000,000	9. Nigeria	20,200,000	9. People's Republic of China	20,000,000
10. Nigeria	20,900,000	10. People's Republic of China	20,000,000	10. Nigeria	19,500,000
11. United Kingdom	15,700,000	11. Venezuela	17,700,000	11. United Kingdom	16,800,000
12. Venezuela	15,000,000	12. United Kingdom	16,000,000	12. Venezuela	15,270,000
13. Indonesia	15,000,000	13. Indonesia	14,000,000	13. Indonesia	10,500,000
14. Mexico	13,582,000	14. Mexico	9,500,000	14. Mexico	7,000,000
15. Algeria	7,700,000	15. Algeria	7,370,000	15. Algeria	6,800,000
16. Norway	7,300,000	16. Norway	7,000,000	16. Canada	6,257,082
17. Canada	7,171,229	17. Canada	6,653,002	17. Oman	5,800,000
18. Oman	6,000,000	18. Oman	5,900,000	18. Qatar	5,700,000
19. Qatar	6,000,000	19. Qatar	5,850,000	19. Norway	5,660,000
20. Congo Republic	4,874,000	20. Egypt	3,900,000	20. India	3,000,000
TOTAL FREE WORLD	601,018,535	TOTAL FREE WORLD	554,920,849	TOTAL FREE WORLD	538,989,568
TOTAL WORLD	712,418,535	TOTAL WORLD	657,920,849	TOTAL WORLD	640,089,568

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 17.3 billion barrels in 1975, 6.4 billion barrels in 1976, and 6.3 billion barrels in 1977. This production is not included in the above figures.

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

Section II
Table 3a

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1978	Nation	1979	Nation	1980
1. Saudi Arabia(1)	150,000,000	1. Saudi Arabia(1)	165,700,000	1. Saudi Arabia(1)	163,350,000
2. U.S.S.R.	75,000,000	2. U.S.S.R.	71,000,000	2. U.S.S.R.	67,000,000
3. Kuwait(1)	67,000,000	3. Kuwait(1)	66,200,000	3. Kuwait(1)	65,400,000
4. Iran	62,000,000	4. Iran	59,000,000	4. Iran	58,000,000
5. Iraq	34,500,000	5. Iraq	32,100,000	5. Mexico	31,250,000
6. United Arab Emirates	32,425,000	6. Abu Dhabi	30,000,000	6. Iraq	31,000,000
7. United States	29,486,402	7. United States	27,803,760	7. Abu Dhabi	28,000,000
8. Libya	25,000,000	8. Libya	24,300,000	8. United States	27,051,289
9. People's Republic of China	20,000,000	9. People's Republic of China	20,000,000	9. Libya	23,500,000
10. United Kingdom	19,000,000	10. Nigeria	18,200,000	10. People's Republic of China	20,000,000
11. Nigeria	18,700,000	11. Venezuela	18,000,000	11. Venezuela	17,870,000
12. Venezuela	18,200,000	12. Mexico	16,000,000	12. Nigeria	17,400,000
13. Mexico	14,000,000	13. United Kingdom	16,000,000	13. United Kingdom	15,400,000
14. Indonesia	10,000,000	14. Indonesia	10,200,000	14. Indonesia	9,600,000
15. Algeria	6,600,000	15. Canada	6,860,000	15. Algeria	8,440,000
16. Norway	6,000,000	16. Algeria	6,300,000	16. Canada	6,800,000
17. Canada	5,970,872	17. Norway	5,900,000	17. Norway	5,750,000
18. Oman	5,650,000	18. Qatar	4,000,000	18. Qatar	3,760,000
19. Qatar	5,600,000	19. Egypt	3,200,000	19. Egypt	3,100,000
20. India	3,000,000	20. India	2,900,000	20. Malaysia	2,800,000
TOTAL FREE WORLD	547,805,194	TOTAL FREE WORLD	547,771,585	TOTAL FREE WORLD	552,174,789
TOTAL WORLD	645,805,194	TOTAL WORLD	641,771,585	TOTAL WORLD	642,174,789

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6.2 billion barrels in 1978, 6.5 billion barrels in 1979, and 6.3 billion barrels in 1980. These figures are not included in the above figures.

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

Section II
Table 3b

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

Nation	1981	Nation	1982	Nation	1983
1. Saudi Arabia(1)	165,000,000	1. Saudi Arabia(1)	164,600,000	1. Saudi Arabia(1)	162,400,000
2. Kuwait(1)	64,900,000	3. Kuwait(1)	64,480,000	3. Kuwait(1)	64,230,000
3. U.S.S.R.	63,000,000	2. U.S.S.R.	63,000,000	2. U.S.S.R.	63,000,000
4. Iran	57,500,000	4. Iran	57,000,000	4. Iran	55,308,000
5. Mexico	44,000,000	5. Mexico	56,990,000	5. Mexico	48,300,000
6. Iraq	30,000,000	6. Abu Dhabi	30,600,000	6. Iraq	41,000,000
7. Abu Dhabi	29,000,000	7. United States	29,426,000	7. Abu Dhabi	30,510,000
8. United States	29,805,000	8. Iraq	29,700,000	8. United States	27,858,000
9. Libya	23,000,000	9. Libya	22,600,000	9. Libya	21,500,000
10. China	20,500,000	10. Venezuela	20,300,000	10. Venezuela	21,500,000
11. Venezuela	17,950,000	11. China	19,895,000	11. China	19,485,000
12. Nigeria	16,700,000	12. Nigeria	16,500,000	12. Nigeria	16,750,000
13. United Kingdom	14,800,000	13. United Kingdom	14,800,000	13. United Kingdom	13,900,000
14. Indonesia	9,500,000	14. Indonesia	9,800,000	14. Indonesia	9,550,000
15. Algeria	8,200,000	15. Algeria	8,080,000	15. Algeria	9,440,000
16. Canada	6,400,000	16. Norway	7,620,000	16. Canada	7,020,000
17. Norway	5,500,000	17. Canada	7,300,000	17. Norway	6,800,000
18. Qatar	3,585,000	18. Qatar	3,434,000	18. Qatar	3,425,000
19. Malaysia	3,000,000	19. Egypt	2,930,000	19. Malaysia	3,325,000
20. Egypt(2)	2,900,000	20. Malaysia	2,800,000	20. Egypt	3,325,000
TOTAL FREE WORLD	565,629,712	TOTAL FREE WORLD	585,505,150	TOTAL FREE WORLD	583,147,406
TOTAL WORLD	651,929,712	TOTAL WORLD	670,350,150	TOTAL WORLD	668,262,406

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(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6,260 mb in 1981, 6,500 mb in 1982, and 5,840 mb in 1983. This production is not included in the above figures.

Source: United States, U.S. Energy Information Administration
Rest of World, Oil and Gas Journal

Section II
Table 3c

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES - TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

	Nation	1984		Nation	1985
1.	Saudi Arabia(1)	166,000,000	1.	Saudi Arabia(1)	169,000,000
2.	Kuwait(1)	63,900,000	2.	Kuwait(1)	90,000,000
3.	U.S.S.R.	63,000,000	3.	U.S.S.R.	63,000,000
4.	Iran	51,000,000	4.	Mexico	48,600,000
5.	Mexico	48,000,000	5.	Iran	48,500,000
6.	Iraq	43,000,000	6.	Iraq	44,500,000
7.	Abu Dhabi	30,400,000	7.	Abu Dhabi	30,500,000
8.	United States	27,735,000	8.	United States	27,300,000
9.	Venezuela	24,850,000	9.	Venezuela	25,845,000
10.	Libya	21,270,000	10.	Libya	21,100,000
11.	China	19,100,000	11.	China	19,100,000
12.	Nigeria	16,550,000	12.	Nigeria	16,650,000
13.	United Kingdom	13,150,000	13.	United Kingdom	13,590,000
14.	Algeria	9,220,000	14.	Algeria	9,000,000
15.	Indonesia	9,100,000	15.	Indonesia	8,650,000
16.	Norway	7,660,000	16.	Norway	8,300,000
17.	Canada	6,730,000	17.	Canada	7,075,000
18.	India	3,485,000	18.	Oman	3,500,000
19.	Egypt	3,450,000	19.	India	3,500,000
20.	Qatar	3,330,000	20.	Qatar	3,350,000
	TOTAL FREE WORLD	585,137,600		TOTAL FREE WORLD	614,567,400
	TOTAL WORLD	669,737,600		TOTAL WORLD	698,667,400

(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 5,695 MB in 1984 and 5,420 MB in 1985.

Source: 1984- United States, U.S. Energy Information Administration
Rest of World, Oil and Gas Journal
1985- Oil and Gas Journal, "Worldwide Report" issue

USGS ESTIMATES OF U.S. OIL AND GAS RESOURCES

	CRUDE OIL (billion barrels)							NATURAL GAS (trillion cubic feet)					
	Identified resources			Undiscovered recoverable resources				Identified resources (3)		Undiscovered recoverable resources			
Petroleum Region	Measured reserves	Indicated reserves	Inferred reserves	Low $^1F_{95}$	High $^1F_5$	Mean	Standard deviation	Measured reserves	Inferred reserves	Low $^1F_{95}$	High $^1F_5$	Mean	Standard deviation
Onshore													
1. Alaska	8.7	0	5.0	2.5	14.6	6.9	4.3	30.0	4.4	19.8	62.3	36.6	14.0
2. Pacific Coast	3.2	1.6	1.2	2.1	7.9	4.4	2.0	4.2	3.8	8.2	24.9	14.7	5.5
3. Colorado Plateau and Basin and Range	0.3	Negl.	1.0	6.9	25.9	14.2	8.0	11.4	4.5	53.5	142.4	90.1	29.7
4. Rocky Mountains and northern Great Plains	1.1	0.2	2.9	6.0	14.0	9.4	2.6	7.1	5.5	29.6	69.0	45.7	12.6
5. West Texas and eastern New Mexico	5.4	1.3	4.0	2.7	9.4	5.4	2.2	15.9	18.1	22.4	75.2	42.8	17.8
6. Gulf Coast	3.8	0.2	5.3	3.6	12.6	7.1	2.8	45.3	74.3	56.5	249.1	124.4	63.6
7. Mid-continent	1.5	0.2	1.4	2.3	7.7	4.4	1.8	32.0	18.8	22.9	80.8	44.5	18.4
8. Michigan Basin	0.2	Negl.	0.8	0.3	2.7	1.1	0.8	1.1	1.1	1.8	10.9	5.1	3.1
9. Eastern Interior	0.2	Negl.	0.1	0.3	1.9	0.9	0.6	Negl.	0.1	1.2	5.0	2.7	1.3
10. Appalachians	0.2	Negl.	0.1	0.1	1.5	0.6	0.5	6.2	5.9	6.4	45.8	20.1	13.2
11. Atlantic Coast	Negl.	0	0.1	0.1	0.8	0.3	0.3	Negl.	Negl.	Negl.	0.4	0.1	0.3
Entire onshore	24.7	3.6	21.8	41.7	71.0	54.6	10.5	153.3	136.5	322.5	567.9	426.8	78.5
Offshore—Shelf													
1A Alaska[2]	0.2	0	0.1	3.8	22.0	10.8	6.4	2.0	1.2	28.5	99.0	57.4	23.6
2A Pacific Coast	1.2	0	0.5	0.6	3.0	1.5	0.8	1.9	0.4	0.9	5.2	2.5	1.5
6A Gulf of Mexico	1.7	Negl.	1.0	1.3	7.9	4.0	2.1	34.4	39.5	22.0	79.2	45.3	18.5
11A Atlantic Coast	0	0	0	0	3.9	1.3	1.4	0	0	2.2	17.9	8.2	5.0
Entire shelf	3.1	Negl.	1.5	9.2	30.2	17.6	6.9	38.2	41.0	72.0	166.8	113.4	30.4
Offshore--Slope													
1A Alaska[2]	0	0	0	0	52.0	1.4	2.3	0	0	0	20.2	7.2	12.3
2A Pacific Coast	0	0	0	0.6	6.0	2.4	2.0	0	0	1.9	10.2	4.4	3.0
6A Gulf of Mexico	No data	0	No data	0.9	5.2	2.5	1.4	No data	No data	11.1	51.8	26.5	13.8
11A Atlantic Coast	0	0	0	0	10.7	4.1	3.6	0	0	5.1	34.5	15.4	9.6
Entire slope	0	0	0	4.2	19.2	10.4	4.9	0	0	28.6	87.1	53.6	21.0
Offshore--combined shelf and slope													
1A Alaska[2]	0.2	0	0.1	4.6	24.2	12.2	6.8	2.0	1.2	33.3	109.6	64.6	26.6
2A Pacific Coast	1.2	0	0.5	1.7	7.9	3.8	2.2	1.9	0.4	3.7	13.6	6.9	3.3
6A Gulf of Mexico	1.7	Negl.	1.0	3.1	11.1	6.5	2.5	34.4	39.5	41.7	114.2	71.8	23.1
11A Atlantic Coast	0	0	0	1.1	12.9	5.4	3.9	0	0	9.2	42.8	23.7	10.8
Entire slope	3.1	Negl.	1.5	16.9	43.5	28.0	8.5	38.2	41.0	117.4	230.6	167.0	37.0
Combined onshore and offshore													
Entire United States	27.8	3.6	23.4	64.3	105.1	82.6	13.4	191.5	177.5	474.6	739.3	593.8	86.8

(1) F_{95} denotes the 95th fractile; the probability of more than the amount F_{95} is 95% F_5 is defined similarly.
(2) Includes quantities considered recoverable only if technology permits their exploitation beneath Artic pack ice—a condition not yet met.
(3) Does not include gas in storage.

Source: U.S. Geological Survey, Circular 860

BASIC PETROLEUM DATA BOOK

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Section III
Table 1

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1947	275	1,434,351	119	662,513	3,086	12,509,723	3,480	14,606,587
1948	366	1,791,437	135	899,514	3,795	16,048,313	4,296	18,739,264
1949	364	1,813,650	142	973,124	3,943	15,372,983	4,449	18,159,757
1950	462	2,345,714	130	800,276	4,698	18,972,164	5,290	22,118,254
1951	515	2,784,458	169	1,046,805	5,505	24,116,951	6,189	27,948,214
1952	556	3,122,962	185	1,310,227	5,957	28,068,745	6,698	32,501,934
1953	531	3,288,855	193	1,244,946	6,151	29,321,262	6,925	33,855,063
1954	639	3,577,418	263	1,761,483	6,478	30,149,120	7,380	35,488,021
1955	659	3,667,073	260	1,664,789	7,186	33,654,112	8,105	38,985,974
1956	628	3,690,270	240	1,762,688	7,874	36,913,273	8,742	42,366,231
1957	590	3,403,283	282	2,099,922	7,142	33,600,397	8,014	39,103,602
1958	518	2,963,220	268	2,077,923	6,164	29,161,083	6,950	34,202,226
1959	466	2,710,157	306	2,113,934	6,259	30,635,114	7,031	35,459,205
1960	448	2,614,001	297	2,136,721	6,575	31,130,339	7,320	35,381,061

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1947	982	4,280,672	396	1,895,491	5,397	20,217,185	6,775	26,393,348
1948	1,098	4,883,179	365	2,306,271	6,550	25,561,647	8,013	32,751,097
1949	1,406	5,950,460	424	2,409,230	7,228	26,438,601	9,058	34,798,291
1950	1,583	6,861,758	431	2,356,021	8,292	30,957,394	10,306	40,175,173
1951	1,763	8,125,473	454	2,495,592	9,539	38,722,629	11,756	49,343,694
1952	1,776	8,490,701	559	3,393,813	10,090	43,730,875	12,425	55,615,389
1953	1,981	9,431,700	699	3,952,118	10,633	47,279,793	13,313	60,663,611
1954	1,985	9,409,404	726	4,399,196	10,389	45,791,944	13,100	59,600,544
1955	2,236	10,774,397	874	5,212,258	11,832	53,219,667	14,942	69,206,322
1956	2,267	11,110,534	822	5,179,111	13,118	58,047,439	16,207	74,337,084
1957	1,945	9,794,182	865	5,966,961	11,904	53,420,086	14,714	69,181,229
1958	1,745	8,712,007	822	5,472,151	10,632	47,299,753	13,199	61,483,911
1959	1,702	8,544,972	912	6,031,180	10,577	48,676,369	13,191	63,252,521
1960	1,321	6,829,122	868	5,466,439	9,515	43,535,075	11,704	55,830,636

Source: American Association of Petroleum Geologists.

Section III
Table 1a

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1961	429	2,304,472	316	2,373,465	6,164	30,733,007	6,909	35,410,944
1962	470	2,670,875	317	2,380,930	6,007	29,832,533	6,794	34,884,338
1963	529	2,629,952	240	1,550,207	5,801	29,371,086	6,570	33,551,245
1964	440	2,623,873	252	1,933,484	5,931	30,028,416	6,623	34,585,773
1965	397	2,279,545	234	1,849,272	5,544	27,933,474	6,175	32,062,291
1966	403	2,437,921	232	1,888,322	5,523	27,052,375	6,158	31,378,618
1967	371	2,255,638	189	1,496,083	4,700	24,255,198	5,260	28,006,919
1968	321	2,012,067	127	1,046,358	4,757	27,190,387	5,205	30,248,812
1969	344	2,237,551	191	1,669,263	5,421	31,511,973	5,956	35,418,787
1970	309	2,063,696	184	1,523,884	4,576	26,696,655	5,069	30,284,235
1971	232	1,518,573	202	1,552,887	4,028	23,364,530	4,462	26,435,990
1972	294	1,925,612	272	2,101,876	4,520	26,941,940	5,086	30,969,428
1973	285	1,785,985	416	2,957,367	4,288	25,598,586	4,989	30,341,938
1974	358	2,265,489	447	3,027,439	4,847	28,298,383	5,652	33,591,311
1975	429	2,838,904	447	3,377,029	5,228	30,843,001	6,104	37,058,934

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1961	1,157	5,899,555	813	5,249,616	9,022	38,054,853	10,992	49,204,024
1962	1,211	6,205,402	771	5,187,452	8,815	44,103,834	10,797	55,496,688
1963	1,314	6,409,095	664	4,229,802	8,686	42,846,565	10,664	53,485,462
1964	1,219	6,715,355	577	4,203,534	8,951	42,655,665	10,747	53,574,554
1965	946	5,365,758	515	3,757,004	8,005	45,319,365	9,466	54,442,127
1966	1,030	5,880,029	578	4,881,198	8,705	44,461,934	10,313	55,223,161
1967	986	5,677,675	532	3,978,526	7,360	38,182,439	8,878	47,838,640
1968	954	5,642,235	486	3,740,781	7,439	41,575,022	8,879	50,958,038
1969	1,084	6,563,032	616	4,984,622	8,001	45,918,308	9,701	57,465,962
1970	790	5,055,266	481	3,674,557	6,422	36,523,545	7,693	45,253,368
1971	651	3,712,165	437	3,328,365	5,834	33,347,439	6,922	40,387,969
1972	684	4,001,526	601	4,592,273	6,254	36,449,999	7,539	45,043,798
1973	619	3,853,751	900	6,170,512	5,947	34,752,643	7,466	44,776,906
1974	814	4,852,259	1,195	7,673,663	6,610	37,735,822	8,619	50,261,744
1975	972	5,699,225	1,171	7,998,994	7,071	40,148,084	9,214	53,846,303

Source: 1961-1966 — American Association of Petroleum Geologists.
1967-1975 — American Petroleum Institute.

U.S. EXPLORATORY WELLS AND FOOTAGE

NEW-FIELD WILDCAT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	439	2,902,385	547	3,824,853	4,854	28,297,390	5,840	35,024,628
1977	481	3,000,357	523	3,856,438	5,097	30,602,662	6,101	37,459,457
1978	445	2,894,938	538	3,791,833	5,522	33,756,358	6,505	40,443,129
1979	491	3,310,132	671	4,705,683	5,251	32,500,381	6,413	40,516,196
1980	654	4,201,443	686	4,960,108	5,694	35,012,527	7,034	44,174,078
1981	744	5,218,215	679	5,341,819	6,629	42,296,839	8,052	52,856,873
1982	755	5,338,055	645	5,033,648	6,512	41,880,499	7,912	52,252,202
1983	560	3,229,411	578	3,454,978	5,439	30,920,121	6,487	37,604,510
1984	520	3,596,813	360	2,542,967	5,207	31,757,410	6,087	37,897,190

TOTAL EXPLORATORY

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	1,047	6,139,088	1,402	9,182,955	6,785	37,490,363	9,234	52,812,406
1977	1,209	7,053,644	1,477	9,674,848	7,275	40,926,382	9,961	57,654,874
1978	1,125	6,793,419	1,603	10,816,234	7,949	45,625,092	10,677	63,234,745
1979	1,240	7,468,543	1,784	11,722,138	7,460	43,226,507	10,484	62,467,188
1980	1,605	9,288,831	1,969	13,732,359	8,342	46,927,130	11,916	69,948,320
1981	2,219	13,267,311	2,366	15,729,426	10,583	60,090,485	15,168	89,087,222
1982	2,584	14,965,772	2,275	16,002,699	11,623	64,723,238	16,482	95,691,709
1983	2,092	10,698,824	1,888	11,572,989	9,907	49,930,362	13,887	72,202,175
1984	2,421	12,067,375	1,500	9,166,316	11,156	55,268,103	15,077	76,501,794

Source: American Petroleum Institute.

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS(1)

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total	Footage
1947	17,017		2,909		4,141		24,067	87,667,652
1948	21,487		2,532		5,476		29,495	104,640,903
1949	20,636		2,463		5,499		28,598	103,204,709
1950	22,847		2,412		6,465		31,724	119,112,827
1951	21,690		2,576		7,114		31,380	122,987,306
1952	21,690		2,696		7,528		31,914	131,574,611
1953	23,781		3,107		7,816		34,704	138,175,389
1954	27,788		3,251		8,779		39,818	159,385,456
1955	29,331		2,739		8,910		40,980	157,063,678
1956	28,463		3,721		8,720		40,904	161,564,916
1957	26,067		3,755		9,079		38,901	152,719,310
1958	22,833		3,981		8,411		35,225	136,740,181
1959	24,098		4,117		8,688		36,903	145,978,895
1960	19,865		4,390		8,059		32,314	134,872,036

TOTAL WELLS

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total Wells	Footage	Service Strat & Core	Grand Total
1947	17,999		3,305		9,538		30,842	114,061,000	2,280	33,122
1948	22,585		2,897		12,026		37,508	137,392,000	2,270	39,778
1949	22,042		2,887		12,727		37,656	138,003,000	1,382	39,038
1950	24,430		2,843		14,757		42,030	159,288,000	1,249	43,279
1951	23,453		3,030		16,653		43,136	172,331,000	1,380	44,516
1952	23,466		3,255		17,618		44,339	187,190,000	1,482	45,821
1953	25,762		3,806		18,449		48,017	198,839,000	1,262	49,279
1954	29,773		3,974		19,168		52,915	218,986,000	1,012	53,927
1955	31,567		3,608		20,742		55,917	226,270,000	760	56,677
1956	30,737		4,543		21,797		57,077	233,902,000	1,049	58,126
1957	28,012		4,620		20,976		53,608	221,900,539	1,061	53,838
1958	24,578		4,803		19,043		48,424	198,224,092	1,615	50,039
1959	25,800		5,029		19,265		50,094	209,231,416	1,670	51,764
1960	21,186		5,258		17,574		44,018	190,702,672	2,733	46,751

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(1) The number of development wells was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(2) Footage not available prior to 1966.

Source: American Association of Petroleum Geologists and Oil and Gas Journal.

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS(1)

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total	Footage
1961	19,944		4,851		8,084		32,879	142,912,090
1962	20,038		5,077		7,867		32,982	143,061,953
1963	18,974		4,087		7,661		30,722	130,871,538
1964	19,401		4,278		8,537		32,216	136,347,316
1965	17,815		4,209		8,020		30,044	126,984,888
1966	15,417	59,562,661	3,589	19,562,196	7,065	28,097,191	26,071	107,222,048
1967	14,343	52,955,743	3,127	17,601,654	5,886	22,960,426	23,356	93,517,823
1968	13,377	53,874,620	2,970	16,975,492	5,373	23,162,297	21,720	94,012,409
1969	13,284	55,018,970	3,467	19,177,390	5,735	25,445,537	22,486	99,641,897
1970	12,230	52,036,521	3,359	19,214,724	4,838	22,761,125	20,427	94,012,370
1971	11,207	44,839,397	3,393	19,295,191	4,329	19,716,662	18,929	83,851,250
1972	10,622	44,532,369	4,327	22,172,910	4,803	22,853,354	19,752	89,558,633
1973	9,283	40,788,198	5,485	29,429,819	4,358	21,396,529	19,126	91,614,546
1974	11,970	45,356,725	6,045	31,312,819	5,064	23,620,119	23,079	100,289,663
1975	15,436	58,809,761	6,409	33,928,337	6,176	27,849,831	28,021	120,587,929

TOTAL WELLS

	Oil Wells	Footage(2)	Gas Wells	Footage(2)	Dry Holes	Footage(2)	Total Wells	Footage	Service Strat & Core	Grand Total
1961	21,101		5,664		17,106		43,871	192,116,114	3,091	46,962
1962	21,249		5,848		16,682		43,779	198,558,641	2,400	46,179
1963	20,288		4,751		16,347		41,386	184,357,000	2,267	43,653
1964	20,620		4,855		17,488		42,963	189,921,870	2,273	45,236
1965	18,761		4,724		16,025		39,501	181,427,015	1,922	41,423
1966	16,447	65,442,690	4,167	24,443,394	15,770	72,559,125	36,384	162,445,209	2,152	38,536
1967	15,329	58,633,418	3,659	21,580,180	13,246	61,142,865	32,234	141,356,463	1,584	33,818
1968	14,331	59,516,855	3,456	20,716,273	12,812	64,737,319	30,599	144,970,447	2,315	32,914
1969	14,368	61,582,002	4,083	24,162,012	13,736	71,363,845	32,187	157,107,859	1,866	34,053
1970	13,020	57,091,787	3,940	22,889,281	11,260	59,284,670	28,120	139,265,738	1,347	29,467
1971	11,858	45,551,562	3,830	22,623,556	10,163	53,064,101	25,851	124,239,219	1,449	27,300
1972	11,306	48,533,895	4,928	26,765,183	11,057	59,303,353	27,291	134,602,431	1,464	28,755
1973	9,902	44,641,949	6,385	35,600,331	10,305	56,149,172	26,592	136,391,452	1,010	27,602
1974	12,784	50,208,984	7,240	38,986,482	11,674	61,355,941	31,698	150,551,407	1,195	32,893
1975	16,408	64,508,986	7,580	41,927,331	13,247	67,997,915	37,235	174,434,232	1,862	39,097

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(1) The number of development wells for 1961-1965 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(2) Footage not available prior to 1966.

Source: 1961-1965 — American Association of Petroleum Geologists and Oil and Gas Journal.
1966-1975 -- American Petroleum Institute.

U.S. DEVELOPMENT AND TOTAL WELLS AND FOOTAGE

DEVELOPMENT WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage
1976	16,012	60,563,685	7,683	38,323,628	6,836	30,080,296	30,531	128,967,609
1977	17,703	68,254,038	9,901	49,863,196	7,417	35,075,801	35,021	153,193,035
1978	16,650	65,740,465	11,461	59,379,429	8,269	38,755,228	36,380	163,875,122
1979	18,143	71,167,437	12,897	65,984,223	8,292	39,039,853	39,332	176,191,513
1980	25,421	100,249,736	13,761	71,310,386	9,747	42,952,537	48,929	214,512,659
1981	35,452	137,401,750	15,528	81,149,957	12,390	53,767,591	63,370	272,319,298
1982	37,717	144,418,151	16,677	91,206,023	14,919	64,677,088	69,313	300,301,262
1983	35,115	125,208,074	13,740	71,653,067	13,587	56,696,475	62,442	253,557,616
1984	38,674	141,081,066	14,205	72,952,477	14,076	57,749,509	66,955	271,783,052

TOTAL WELLS

	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total Wells	Footage	Service Strat & Core	Grand Total
1976	17,059	66,702,773	9,085	47,506,583	13,621	67,570,659	39,765	181,780,015	1,690	41,455
1977	18,912	75,307,682	11,378	59,538,044	14,692	76,002,183	44,982	210,847,909	1,497	46,479
1978	17,775	75,533,884	13,064	70,195,663	16,218	84,380,320	47,057	227,109,867	1,465	48,513
1979	19,383	78,635,980	14,681	77,756,361	15,752	82,266,360	49,816	238,658,701	1,447	51,263
1980	27,026	109,538,567	15,730	85,042,745	18,089	89,879,667	60,845	284,460,979	1,617	62,462
1981	37,671	150,669,061	17,894	96,879,383	22,973	113,858,076	78,538	361,406,520	1,999	80,537
1982	40,301	159,383,923	18,952	107,208,722	26,542	129,400,326	85,795	395,992,971	2,306	88,101
1983	37,207	135,906,898	15,628	83,226,056	23,494	106,626,837	76,329	325.759,791	2,213	78,542
1984	41,095	153,148,441	15,705	82,118,793	25,232	113,017,612	82,032	348,284,846	2,151	84,183

Source: American Petroleum Institute.

Section III
Table 3

U.S. WELLS DRILLED BY DEPTH INTERVAL

Year	Depth Interval (Feet) Under 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-over	Total Wells Drilled
1959	34,867	11,719	2,757	220	(1)	49,563
1960	30,575	10,485	2,835	238	(1)	44,133
1961	30,289	10,658	2,789	252	(1)	43,988
1962	29,496	11,103	3,062	283	(1)	43,944
1963	28,524	10,342	2,723	264	(1)	41,853
1964	29,913	10,649	2,604	320	(1)	43,486
1965	25,697	11,081	2,491	327	(1)	39,596
1966	22,178	9,703	2,251	355	34	34,521
1967	20,359	8,668	2,130	343	38	31,538
1968	17,999	8,958	2,264	308	47	29,576
1969	17,067	9,690	2,378	300	46	29,481
1970	15,930	8,694	2,173	325	55	27,177
1971	14,776	7,888	1,998	324	54	25,040
1972	15,352	8,349	2,246	445	51	26,443
1973	14,884	8,755	2,166	379	60	26,244
1974	19,369	9,452	2,253	341	66	31,481
1975	22,704	11,254	2,588	365	49	36,960
1976	24,260	11,485	2,821	324	51	38,941
1977	26,800	13,339	3,215	422	50	43,826
1978	28,545	13,792	3,691	578	49	46,655
1979	29,831	14,114	3,936	591	51	48,523
1980	38,889	16,934	4,310	647	65	60,845
1981	51,078	21,533	5,030	807	90	78,538
1982	56,201	22,283	6,095	1,097	124	85,800
1983	52,610	18,391	4,373	851	104	76,329
1984	55,783	20,738	4,840	628	43	82,032

(1) Included in 15,000-19,999 foot interval

Source: 1959-1979, API, Joint Association Survey
1980-present, API, Quarterly Review of Drilling Statistics

Section III
Table 4

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(CREW MONTHS)

	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total
1951	(1)	(1)	6,537	(1)	(1)	802	(1)	(1)	7,339
1952	(1)	(1)	7,958	(1)	(1)	965	(1)	(1)	8,923
1953	(1)	(1)	7,666	(1)	(1)	1,006	(1)	(1)	8,672
1954	(1)	(1)	6,863	(1)	(1)	1,106	(1)	(1)	7,969
1955	2,791	4,299	7,090	419	655	1,150(2)	3,210	4,954	8,240(2)
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174
1964	1,360	2,742	4,102	76	228	309(4)	1,436	2,970	4,411(4)
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471
1966	1,496	2,176	3,672	57	88	163(5)	1,553	2,264	3,835(5)
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496
1968	1,138	2,130	3,268	15	104	122(6)	1,153	2,234	3,390(6)
1969	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472
1970	781	1,559	2,340	12	169	181	793	1,728	2,521
1971	656	1,999	2,655	10	97	107	666	2,096	2,762
1972	622	2,394	3,016	6	118	124	628	2,512	3,140
1973	607	2,392	2,999	18	56	74	625	2,448	3,073
1974	540	3,122	3,662	(1)	(1)	230	(1)	(1)	3,892

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(1) Company-contractor data are not available.
(2) Includes 76 magnetometer crew months not allocated to either company or contractor.
(3) Percentages do not equal 100 percent due to unallocated crew months included in total.
(4) Includes 5 other crew months not allocated to either company or contractor.
(5) Includes 18 magnetometer crew months not allocated to either company or contractor.
(6) Includes 3 magnetometer crew months not allocated to either company or contractor.

Source: Society of Exploration Geophysicists, Annual Reports.

Section III
Table 4a

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(CREW MONTHS)

	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total
1975	543	2,860	3,416(2)	(1)	(1)	271	(1)	(1)	3,687
1976	484	2,646	3,140(2)	(1)	(1)	245	(1)	(1)	3,385
1977	499	2,564	3,063(2)	(1)	(1)	120	(1)	(1)	3,183
1978	478	3,670	4,148(2)	(1)	(1)	196	(1)	(1)	4,344
1979	829	3,571	4,400(2)	(1)	(1)	199	(1)	(1)	4,599
1980	1,292	3,669	4,962	(1)	(1)	311	(1)	(1)	5,273
1981	1,038	4,839	5,877	(1)	(1)	382	(1)	(1)	6,259
1982	653	5,023	5,676	(1)	(1)	492	(1)	(1)	6,168
1983	588	4,356	4,944	(1)	(1)	334	(1)	(1)	5,278

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(1) Company-contractor data are not available.
(2) Total includes government and university activity unallocated to company-contractor totals.

Source: Society of Exploration Geophysicists, Annual Reports.

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew Months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total Free World
1954	7,969	1,652	1,210	10,831	(1)	(1)	(1)	(1)	12,424
1955	8,240	1,599	1,148	10,987	(1)	(1)	(1)	(1)	13,430
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	13,627
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	13,655
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	12,590
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	11,481
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	10,526
1961	5,024	664	995	6,683	1,314	1,472	213	521	10,203
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	9,199
1963	4,174	745	1,153	6,072	1,094	978	233	968	9,345
1964	4,411	673	1,133	6,217	1,035	766	283	909	9,210
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	9,689
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	9,040
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	9,055
1968	3,390	970	1,012	5,372	711	679	296	708	7,766
1969	3,472	960	898	5,330	676	864	460	935	8,265
1970	2,521	806	1,052	4,379	725	802	286	1,009	7,201
1971	2,762	334	1,105	4,201	738	915	254	1,578	7,686
1972	3,140	503	1,146	4,789	692	938	239	957	7,615
1973	3,073	585	1,236	4,894	627	798	294	950	7,563
1974	3,892	487	1,572	5,951	702	835	389	1,008	8,897(2)
1975	3,687	597(3)	790(3)	5,074	679(3)	676(3)	306(3)	440(3)	7,185(2)
1976	3,385	421(3)	559(3)	4,365	592(3)	674(3)	351(3)	338(3)	6,353(2)
1977	3,183	766	480(4)	4,429	646	806	309	254	6,497(2)
1978	4,148	782	980	5,910	535	613	330	280	7,668(2)
1979	4,400	761	485	5,646	647	674	345	372	7,746(2)

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(1) Area total not available
(2) Includes crew months allocated to international waters and other areas not specifically identified, 1974-12, 1975-10, 1976-33, 1977-53, 1978-100, 1979-62.
(3) Seismic activity only
(4) Only partial data for Mexico included

Source: Society of Exploration Geophysicists, Annual Reports

Section III
Table 5a

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total Free World
1980	4,962	695	645	6,302	569	688	346	520	8,565(2)
1981	5,877	584	1,261	7,722	733	973	452	436	10,706(2)
1982	5,676	527	808	7,011	798	755	480	752	9,821(2)
1983	4,944	658	703	6,305	744	660	359	700	8,789(2)

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(2) Includes crew months allocated to international waters and other areas not specifically identified.

Source: Society of Exploration Geophysicists, Annual Reports

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total[1]			
	(SIGNIFICANT)									
1947	3	7	11	52	129	48	250	73	3,325	2.20
1948	2	2	9	59	241	33	346	72	4,087	1.76
1949	9	4	9	65	172	78	337	87	4,238	2.05
1950	3	10	15	69	283	56	436	97	5,149	1.88
1951	1	1	13	71	345	61	492	86	6,044	1.42
1952	2	2	11	70	361	90	536	85	6,440	1.32
1953	1	6	17	88	283	134	529	112	6,634	1.69
1954	2	3	12	82	308	179	586	99	7,033	1.41
1955	2	5	13	95	329	178	622	115	7,743	1.49
1956	0	2	2	92	333	124	553	96	8,436	1.14
1957	1	1	7	63	339	186	597	72	7,556	0.95
1958	3	2	16	82	229	157	489	103	6,618	1.56
1959	0	4	3	52	255	110	424	59	7,031	0.84
1960	1	3	5	35	283	143	470	44	7,320	0.60
1961	0	1	4	47	246	68	366	52	6,909	0.75
1962	0	1	3	44	264	78	390	48	6,794	0.71
1963	2	1	7	41	341	100	492	51	6,570	0.78
1964	0	3	9	48	248	109	417	60	6,623	0.91
1965	2	3	5	35	268	63	376	45	6,175	0.73
1966	3	1	3	40	336	6	389	47	6,158	0.76
1967	1	4	2	39	278	24	348	46	5,271	0.87
1968	3	5	1	38	210	63	320	47	5,205	0.90
1969	2	3	2	41	245	28	321	48	5,956	0.81
TOTAL	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields	Over 50 million barrels
B Fields	25-50 million barrels
C Fields	10-25 million barrels
D Fields	1-10 million barrels
E Fields	Less than 1 million barrels
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 6a

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
Cumulative total 1947-1969	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15
1970	11	1	5	43	149	18	227	60	5,069	1.18
1971	2	0	2	23	149	8	184	27	4,463	0.60
1972	1	1	1	49	187	3	242	52	5,086	1.02
1973	0	2	3	23	198	0	226	28	4,989	0.56
1974	0	0	0	36	254	0	290	36	5,652	0.64
1975	0	2	6	43	320	0	371	51	6,104	0.84
1976	1	1	4	39	383	0	428	45	5,840	0.77
1977	0	2	1	38	396	0	437	41	6,101	0.67
TOTAL	58	83	201	1,642	8,362	2,145	12,491	1,984	186,619	1.06

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields......................Over 50 million barrels
B Fields........................25-50 million barrels
C Fields........................10-25 million barrels
D Fields..........................1-10 million barrels
E Fields..................Less than 1 million barrels
F Fields..................Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(1)			
	(SIGNIFICANT)									
1947	5	5	4	30	35	19	98	44	3,325	1.32
1948	3	3	7	33	35	19	100	46	4,087	1.13
1949	8	7	8	34	43	12	112	57	4,238	1.34
1950	4	4	8	28	44	19	107	44	5,149	0.85
1951	10	4	10	41	57	16	138	65	6,044	1.08
1952	10	7	7	44	65	15	148	68	6,440	1.06
1953	3	3	6	40	89	18	159	52	6,634	0.78
1954	4	1	12	51	104	39	211	68	7,033	0.97
1955	2	3	11	33	107	43	199	49	7,743	0.63
1956	2	4	5	52	92	26	181	63	8,436	0.75
1957	9	5	15	70	105	30	234	99	7,556	1.31
1958	3	6	9	55	143	25	241	73	6,618	1.10
1959	4	1	6	51	135	28	225	62	7,031	0.88
1960	6	2	9	63	135	22	237	80	7,320	1.09
1961	4	3	4	35	156	40	242	46	6,909	0.67
1962	3	4	11	61	161	52	292	79	6,794	1.16
1963	4	1	7	38	124	41	215	50	6,570	0.76
1964	4	1	11	37	136	37	226	53	6,623	0.80
1965	1	3	10	38	142	30	224	52	6,175	0.84
1966	1	3	7	36	142	12	201	47	6,158	0.76
1967	4	5	6	26	111	12	164	41	5,271	0.78
1968	1	5	7	27	83	14	137	40	5,205	0.77
1969	3	2	4	35	116	14	174	44	5,956	0.74
TOTAL	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92

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(1) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields......................Over 300 billion cubic feet
B Fields......................150-300 billion cubic feet
C Fields......................60-150 billion cubic feet
D Fields.........................6-60 billion cubic feet
E Fields...........................6 billion cubic feet
F Fields......................Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7a

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total[1]			
	(SIGNIFICANT)									
Cumulative total 1947-1969	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92
1970	5	4	3	25	79	14	130	37	5,069	0.73
1971	2	3	3	38	102	12	160	46	4,463	1.03
1972	3	2	6	47	187	0	245	58	5,086	1.14
1973	2	6	10	57	284	0	359	75	4,989	1.50
1974	0	2	6	51	329	0	388	59	5,652	1.04
1975	3	0	1	64	336	0	404	68	6,104	1.11
1976	2	1	7	53	443	0	506	63	5,840	1.08
1977	3	0	3	75	381	0	462	81	6,101	1.33
TOTAL	118	100	223	1,368	4,501	609	6,919	1,809	186,619	0.97

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(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields	Over 300 billion cubic feet
B Fields	150-300 billion cubic feet
C Fields	60-150 billion cubic feet
D Fields	6-60 billion cubic feet
E Fields	6 billion cubic feet
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL AND GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(1) Significant Size Oil & Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B (SIGNIFICANT)	C (SIGNIFICANT)	D	E	F	Total(1)			
1947	8	12	15	82	164	67	348	117	3,325	3.52
1948	5	5	16	92	276	52	446	118	4,087	2.89
1949	17	11	17	99	215	90	449	144	4,238	3.40
1950	7	14	23	97	327	75	543	141	5,149	2.74
1951	11	5	23	112	402	77	630	151	6,044	2.50
1952	12	9	18	114	426	105	684	153	6,440	2.38
1953	4	9	23	128	372	152	688	164	6,634	2.47
1954	6	4	24	133	412	218	797	167	7,033	2.37
1955	4	8	24	128	436	221	821	164	7,743	2.12
1956	2	6	7	144	425	150	734	159	8,436	1.88
1957	10	6	22	133	444	216	831	171	7,556	2.26
1958	6	8	25	137	372	182	730	176	6,618	2.66
1959	4	5	9	103	390	138	649	121	7,031	1.72
1960	7	5	14	98	418	165	707	124	7,320	1.69
1961	4	4	8	82	402	108	608	98	6,909	1.42
1962	3	5	14	105	425	130	682	127	6,794	1.87
1963	6	2	14	79	465	141	707	101	6,570	1.54
1964	4	4	20	85	384	146	643	113	6,623	1.71
1965	3	6	15	73	410	93	600	97	6,175	1.57
1966	4	4	10	76	478	18	590	94	6,158	1.53
1967	5	9	8	65	389	36	512	87	5,271	1.65
1968	4	10	8	65	293	77	457	87	5,205	1.67
1969	5	5	6	76	361	42	495	92	5,956	1.54
TOTAL	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07

(1) Differs from year-of-discovery total because of consolidations.

A Fields.....................Over 50 million barrels or over 300 billion cubic feet
B Fields........................25-50 million barrels or 150-300 billion cubic feet
C Fields..........................10-25 million barrels or 60-150 billion cubic feet
D Fields.............................1-10 million barrels or 6-60 billion cubic feet
E Fields..............Less than 1 million barrels or less than 6 billion cubic feet
F Fields...Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8a

HISTORICAL RECORD:
NUMBER OF U.S. NEW FIELD OIL AND GAS DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total$^{(1)}$ Significant Size Oil & Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B (SIGNIFICANT)	C (SIGNIFICANT)	D	E	F	Total$^{(1)}$			
Cumulative total 1947-1969	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07
1970	16	5	8	68	228	32	357	97	5,069	1.91
1971	4	3	5	61	251	20	344	73	4,463	1.64
1972	4	3	7	96	374	3	487	110	5,086	2.16
1973	2	8	13	80	482	0	585	103	4,989	2.06
1974	0	2	6	87	583	0	678	95	5,652	1.68
1975	3	2	7	107	656	0	775	119	6,104	1.95
1976	3	2	11	92	826	0	934	108	5,840	1.85
1977	3	2	4	113	777	0	899	122	6,101	2.00
TOTAL	176	183	424	3,010	12,863	2,754	19,410	3,793	186,619	2.03

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(1) Differs from year-of-discovery total because of consolidations.

A Fields......................Over 50 million barrels or over 300 billion cubic feet
B Fields.........................25-50 million barrels or 150-300 billion cubic feet
C Fields..........................10-25 million barrels or 60-150 billion cubic feet
D Fields............................1-10 million barrels or 6-60 billion cubic feet
E Fields..............Less than 1 million barrels or less than 6 billion cubic feet
F Fields...Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 9

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,136	94,331,708	1,232,591,000	3,753	49,037	13.07
1960	20,933	81,168,838	914,306,819	3,878	43,678	11.26
1961	20,868	79,736,609	971,144,061	3,821	46,537	12.18
1962	20,060	83,168,468	1,041,452,536	4,146	51,917	12.52
1963	20,306	77,410,438	940,225,250	3,812	46,303	12.15
1964	20,535	76,376,645	898,606,894	3,719	43,760	11.77
1965	18,370	74,627,569	873,769,045	4,062	47,565	11.71
1966	15,312	60,104,252	745,319,549	3,925	48,676	12.40
1967	14,196	53,675,969	692,118,920	3,781	48,755	12.89
1968	13,010	51,828,631	699,182,337	3,984	53,742	13.49
1969	12,330	52,726,293	790,280,178	4,276	64,094	14.99
1970	12,014	51,734,000	806,429,000	4,306	67,124	15.59
1971	11,096	45,672,234	731,152,743	4,116	65,893	16.01
1972	10,421	45,126,022	792,435,249	4,330	76,042	17.56
1973	9,407	41,980,947	825,029,716	4,462	87,704	19.65
1974	12,820	49,662,328	1,270,731,107	3,874	99,121	25.59

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	4,974	26,688,743	460,307,000	5,366	92,543	17.25
1960	5,175	28,035,381	487,477,504	5,417	94,199	17.39
1961	5,588	29,454,151	489,799,166	5,271	87,652	16.63
1962	5,743	30,171,311	511,755,682	5,254	89,109	16.96
1963	4,689	24,626,510	392,325,056	5,252	83,669	15.93
1964	4,749	25,991,892	447,248,084	5,473	94,177	17.21
1965	4,654	25,113,447	418,669,590	5,396	89,959	16.67
1966	3,914	23,217,268	446,177,620	5,932	113,995	19.22
1967	3,390	19,821,779	401,857,713	5,847	118,542	20.27
1968	3,145	18,536,140	387,216,275	5,894	123,121	20.89
1969	3,705	21,237,340	439,917,416	5,732	118,736	20.71
1970	3,651	21,044,000	478,705,000	5,764	131,116	22.75
1971	3,494	20,086,735	471,309,152	5,749	134,891	23.46
1972	4,856	26,424,009	626,559,655	5,442	129,028	23.71
1973	6,243	34,368,694	843,960,359	5,505	135,185	24.56
1974	6,540	35,552,242	1,114,933,600	5,436	170,479	31.36

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	18,977	79,735,011	775,839,000	4,202	40,883	9.73
1960	17,427	71,568,350	716,918,499	4,107	41,138	10.02
1961	16,926	71,393,988	706,003,668	4,218	41,711	9.89
1962	16,381	72,462,636	751,889,544	4,424	45,900	10.38
1963	16,072	71,272,882	679,103,111	4,435	42,254	9.53
1964	17,207	76,197,567	723,760,548	4,428	42,062	9.50
1965	15,535	71,075,468	681,175,250	4,575	43,848	9.58
1966	14,168	62,730,401	638,085,605	4,428	45,037	10.17
1967	12,587	57,590,338	591,049,820	4,575	46,957	10.26
1968	12,099	60,145,366	665,359,161	4,971	54,993	11.06
1969	12,255	63,091,716	708,336,269	5,148	57,800	11.23
1970	10,454	53,874,000	695,037,000	5,153	66,485	12.90
1971	9,566	49,877,591	646,412,548	5,214	67,574	12.96
1972	10,173	53,984,394	762,721,534	5,307	74,975	14.13
1973	9,713	51,957,041	827,228,251	5,349	85,167	15.92
1974	11,291	58,327,466	1,301,354,034	5,166	115,256	22.31

ONSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	49,197	198,056,000	2,447,219,287	4,026	49,743	12.36
1955(1)	55,517	221,197,185	2,439,924,000	3,984	43,949	11.03
1956(1)	56,646	227,580,288	2,669,624,000	4,018	47,128	11.73
1959	49,087	200,755,462	2,468,737,000	4,090	50,293	12.30
1960	43,595	180,772,569	2,216,899,965	4,147	50,852	12.26
1961	43,382	180,584,748	2,166,926,895	4,163	49,950	12.00
1962	43,184	185,802,415	2,305,097,762	4,303	53,379	12.41
1963	41,067	173,309,830	2,011,653,417	4,220	48,985	11.61
1964	42,491	178,566,194	2,069,615,526	4,202	48,707	11.59
1965	38,559	167,816,484	1,973,613,885	4,352	51,184	11.76
1966	33,394	146,051,921	1,829,582,774	4,374	54,788	12.53
1967	30,173	131,088,086	1,685,026,453	4,345	55,846	12.85
1968	28,254	130,510,137	1,741,757,746	4,619	61,646	13.35
1969	28,290	137,055,349	1,944,533,863	4,845	68,736	14.19
1970	26,119	126,652,000	1,980,171,000	4,849	75,813	15.63
1971	24,156	115,636,560	1,848,874,443	4,787	76,539	15.99
1972	25,450	125,534,425	2,181,716,438	4,933	85,726	17.38
1973	25,356	128,306,687	2,496,218,326	5,060	98,447	19.46
1974	30,651	143,542,038	3,687,018,741	4,683	120,290	25.69

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(1) Data pertaining to well classification not available.

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	15,993	63,641,299	2,003,955,253	3,979	125,302	31.49
1976	16,603	65,636,193	2,227,303,087	3,953	134,151	33.93
1977	17,789	72,089,963	2,654,029,888	4,052	149,195	36.82
1978	17,492	71,596,025	3,157,053,722	4,093	180,485	44.10
1979	18,894	77,020,983	3,983,757,002	4,076	210,847	51.73
1980	28,236	114,228,142	6,924,130,196	4,045	245,223	60.62
1981	38,310	158,514,798	11,948,475,460	4,138	311,889	75.38
1982	35,379	140,035,328	10,895,210,432	3,958	307,957	77.81
1983	33,026	126,511,481	8,004,608,782	3,831	242,373	63.27

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	7,383	40,613,623	1,667,555,125	5,501	225,864	41.06
1976	8,631	45,714,695	2,011,603,612	5,297	233,067	44.00
1977	11,086	58,790,972	2,924,519,836	5,303	263,803	49.74
1978	12,887	68,610,863	3,996,244,518	5,324	310,098	58.25
1979	13,626	72,733,130	5,010,426,429	5,337	367,710	68.90
1980	14,781	81,400,828	6,720,984,786	5,507	454,704	82.57
1981	17,018	95,089,567	10,125,963,881	5,588	595,015	106.49
1982	16,610	96,211,915	12,572,614,054	5,792	756,930	130.69
1983	12,626	69,362,851	6,642,729,531	5,494	526,115	95.76

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	12,556	63,604,041	1,725,506,826	5,066	137,425	27.13
1976	12,679	63,250,013	1,747,814,384	4,989	137,851	27.63
1977	13,734	70,293,622	2,321,990,226	5,118	169,069	33.03
1978	15,079	78,655,296	3,330,509,120	5,216	220,870	42.34
1979	14,743	75,365,528	3,877,721,739	5,111	263,021	51.46
1980	17,722	87,898,711	5,308,941,832	4,959	299,567	60.41
1981	24,012	120,773,262	9,040,265,092	5,030	376,489	74.85
1982	23,199	111,833,874	9,806,473,794	4,821	422,711	87.68
1983	20,614	92,519,594	5,496,480,339	4,488	266,638	59.41

ONSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	35,932	167,858,963	5,397,017,204	4,672	150,201	32.15
1976	37,913	174,600,901	5,986,721,083	4,605	157,907	34.29
1977	42,609	201,174,557	7,900,539,950	4,721	185,420	39.29
1978	45,458	218,862,184	10,483,807,360	4,814	230,626	47.91
1979	47,263	225,119,641	12,871,899,170	4,763	272,346	57.18
1980	60,739	283,527,681	18,954,056,844	4,667	312,057	66.86
1981	79,340	374,377,627	31,114,704,433	4,719	392,169	83.11
1982	75,188	348,081,117	33,274,298,280	4,629	442,548	95.60
1983	66,266	288,393,926	20,143,818,652	4,352	303,984	69.85

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 10

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	227	2,599,612	88,835,000	9,385	320,704	34.17
1960	301	2,865,023	98,197,143	9,518	326,236	34.27
1961	336	3,187,520	115,617,334	9,487	344,099	36.27
1962	342	3,326,026	119,019,601	9,725	348,011	35.78
1963	372	3,689,368	130,912,957	9,918	351,917	35.48
1964	477	4,612,212	164,388,006	9,669	344,629	35.64
1965	487	4,919,944	193,026,274	10,103	396,358	39.23
1966	544	5,449,362	240,434,042	10,017	441,974	44.12
1967	739	6,258,340	303,250,028	8,469	410,352	48.46
1968	757	6,627,424	390,146,022	8,755	515,384	58.87
1969	585	5,208,156	320,848,306	[illegible],903	548,459	61.61
1970	533	4,683,000	281,628,000	8,786	528,382	60.14
1971	309	2,912,973	163,352,339	9,427	528,648	56.08
1972	332	3,273,524	213,035,847	9,860	641,674	65.08
1973	296	2,686,193	181,945,598	9,075	614,681	67.73
1974	253	2,102,914	169,594,672	8,312	670,335	80.65

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	75	896,709	48,588,000	11,956	647,840	54.18
1960	87	1,042,922	52,700,835	11,988	605,757	50.53
1961	86	990,249	47,654,757	11,515	554,125	48.12
1962	115	1,260,484	57,016,076	10,961	495,792	45.23
1963	90	1,051,158	49,100,635	11,680	545,563	46.71
1964	125	1,501,956	63,316,005	12.016	506,528	42.16
1965	118	1,379,717	67,430,379	11,693	571,444	48.87
1966	146	1,756,848	97,073,943	12,033	664,890	55.25
1967	168	1,939,838	99,803,218	11,547	594,067	51.45
1968	179	1,995,683	106,519,840	11,149	595,083	53.38
1969	222	2,457,839	166,087,991	11,071	748,144	67.57
1970	193	2,049,000	138,878,000	10,617	719,575	67.78
1971	185	2,035,105	141,544,606	11,001	765,106	69.55
1972	230	2,460,625	175,825,867	10,698	764,460	71.46
1973	193	1,968,168	153,971,193	10,198	797,778	78.23
1974	155	1,578,821	151,606,723	10,186	978,108	96.02

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	124	1,260,615	44,936,000	10,166	362,387	35.65
1960	150	1,700,433	56,620,365	11,336	337,469	33.30
1961	184	1,906,624	67,963,659	10,362	369,368	35.65
1962	303	3,168,241	95,541,920	10,456	315,320	30.16
1963	324	3,429,706	111,196,941	10,586	343,200	32.42
1964	393	4,065,165	130,047,649	10,344	330,910	31.99
1965	432	4,588,937	167,365,988	10,623	387,421	36.47
1966	437	4,664,125	193,649,552	10,673	443,134	41.52
1967	458	4,719,526	211,098,687	10,305	460,914	44.73
1968	386	3,995,520	170,936,791	10,351	442,841	42.78
1969	384	3,983,883	179,201,104	10,375	466,670	44.98
1970	332	3,506,000	178,005,000	10,560	536,160	50.77
1971	390	4,059,347	217,720,125	10,409	558,257	53.63
1972	431	4,266,964	243,587,637	9,900	565,169	57.09
1973	399	3,699,708	242,397,135	9,272	607,512	65.52
1974	422	3,720,521	358,768,666	8,816	850,163	96.43

OFFSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	82(2)	783,000	24,499,000	9,549	298,768	31.29
1955(1)	414(3)	3,959,846	160,219,000	9,565	387,002	40.46
1956(1)	479(4)	4,593,420	198,786,000	9,590	415,002	43.28
1959	476	4,756,936	182,359,000	9,994	383,107	38.34
1960	538	5,608,378	207,518,343	10,424	385,722	37.00
1961	606	6,084,393	231,235,750	10,040	381,577	38.00
1962	760	7,754,751	271,577,597	10,204	357,339	35.02
1963	786	8,170,232	291,210,533	10,395	370,497	35.64
1964	995	10,179,333	357,751,660	10,230	359,549	35.14
1965	1,037	10,888,598	427,822,641	10,500	412,558	39.29
1966	1,127	11,870,335	531,157,537	10,533	471,302	44.75
1967	1,365	12,917,704	614,151,933	9,464	449,928	47.54
1968	1,322	12,618,627	667,602,653	9,545	504,994	52.91
1969	1,191	11,649,878	666,137,401	9,782	559,309	57.18
1970	1,058	10,238,000	598,511,000	9,677	565,700	58.46
1971	884	9,007,425	522,617,070	10,189	591,196	58.02
1972	993	10,001,113	632,449,351	10,072	636,908	63.24
1973	888	8,354,069	578,313,926	9,408	651,254	69.23
1974	830	7,402,256	679,970,061	8,918	819,241	91.86

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(1) Data pertaining to well classification not available.
(2) Louisiana only
(3) Includes Louisiana and Texas
(4) Includes Louisiana, Texas and California

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 10a

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
			OIL WELLS							GAS WELLS			
1975	283	2,426,503	252,551,719	8,574	892,409	104.08	1975	271	2,762,301	337,855,300	10,193	1,246,699	122.31
1976	275	2,620,987	322,349,526	9,531	1,172,180	122.99	1976	273	2,651,086	395,814,965	9,711	1,449,872	149.30
1977	288	2,570,380	418,724,648	8,924	1,453,905	162.90	1977	393	3,722,271	674,578,971	9,471	1,716,466	181.23
1978	298	2,814,739	542,971,356	9,445	1,822,051	192.91	1978	419	4,208,599	982,577,287	10,044	2,345,053	233.48
1979	349	3,240,020	694,803,364	9,283	1,990,841	214.46	1979	453	4,606,734	1,227,705,600	10,169	2,710,166	266.51
1980	317	2,838,025	844,306,724	8,952	2,663,428	297.52	1980	444	4,418,820	1,445,737,826	9,952	3,256,166	327.19
1981	415	3,467,268	1,074,328,793	8,355	2,588,744	309.85	1981	515	5,167,952	2,122,169,769	10,035	4,120,718	410.64
1982	486	4,269,174	1,563,370,022	8,784	3,216,811	366.21	1982	442	4,591,603	2,165,054,206	10,388	4,898,313	471.54
1983	459	4,312,448	1,499,152,278	9,395	3,266,127	347.65	1983	293	3,124,493	1,213,032,793	10,664	4,140,044	388.96
			DRY HOLES							OFFSHORE WELLS DRILLED			
1975	474	4,594,372	583,789,700	9,693	1,231,624	127.06	1975	1,028	9,783,176	1,174,196,719	9,517	1,142,215	120.02
1976	480	4,545,171	756,794,687	9,469	1,576,656	166.51	1976	1,028	9,817,244	1,474,959,178	9,550	1,434,785	150.24
1977	536	5,227,200	962,609,475	9,752	1,795,913	184.15	1977	1,217	11,519,851	2,055,913,094	9.466	1,689,329	178.47
1978	480	4,733,406	1,051,734,031	9,861	2,191,112	222.20	1978	1,197	11,756,744	2,577,282,674	9,821	2,153,118	219.24
1979	458	4,545,747	1,284,522,234	9,925	2,804,633	282.58	1979	1,260	12,392,501	3,207,031,198	9,835	2,545,262	258.80
1980	511	5,246,430	1,556,254,315	10,266	3,045,507	296.66	1980	1,272	12,503,275	3,846,298,865	9,829	3,023,819	307.64
1981	546	5,787,750	2,354,253,505	10,599	4,311,820	406.80	1981	1,476	14,422,470	5,550,752,067	9,771	3,760,672	384.87
1982	536	5,676,275	2,425,396,060	10,590	4,524,993	427.29	1982	1,464	14,537,052	6,153,820,288	9,930	4,203,429	423.31
1983	518	5,394,965	2,248,538,890	10,415	4,340,809	416.78	1983	1,270	12,831,906	4,960,723,961	10,104	3,906,082	386.59

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 11

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,413	96,931,320	1,321,426,000	3,814	51,998	13.63
1960	21,294	84,033,861	1,110,701,105	3,946	52,160	13.22
1961	21,204	82,924,129	1,086,761,395	3,911	51,253	13.11
1962	21,402	86,494,494	1,160,472,137	4,041	54,223	13.42
1963	20,678	81,099,806	1,071,138,207	3,922	51,801	13.21
1964	21,012	80,988,857	1,062,994,900	3,854	50,590	13.13
1965	18,857	76,547,513	1,066,795,319	4,059	56,573	13.94
1966	15,856	65,553,614	985,753,591	4,134	62,169	15.04
1967	14,935	59,934,309	995,368,948	4,013	66,647	16.61
1968	13,767	58,456,055	1,089,328,359	4,246	79,126	18.63
1969	12,915	57,934,449	1,117,128,484	4,486	86,499	19.28
1970	12,547	56,417,000	1,088,057,000	4,496	86,718	19.29
1971	11,405	48,585,207	894,505,082	4,260	78,431	18.41
1972	10,753	48,399,546	1,005,471,096	4,501	93,506	20.77
1973	9,705	44,667,140	1,006,975,314	4,602	103,758	22.54
1974	13,073	51,765,242	1,440,325,779	3,960	110,176	27.82

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	5,049	27,585,452	508,895,000	5,464	100,791	18.45
1960	5,262	29,078,303	540,179,339	5,526	102,656	18.58
1961	5,674	30,444,400	537,433,923	5,366	94,719	17.65
1962	5,858	31,431,795	568,771,758	5,366	97,093	18.10
1963	4,779	25,677,668	441,425,691	5,373	92,368	17.19
1964	4,874	27,493,848	510,564,089	5,641	104,753	18.57
1965	4,772	26,493,164	486,099,969	5,552	101,865	18.35
1966	4,060	24,974,116	543,251,563	6,151	133,806	21.75
1967	3,558	21,761,617	501,660,931	6,116	140,995	23.05
1968	3,324	20,531,823	493,736,115	6,177	148,537	24.05
1969	3,927	23,695,179	606,005,407	6,034	154,318	25.58
1970	3,844	23,093,000	617,583,000	6,007	160,662	26.74
1971	3,679	22,121,840	612,853,758	6,013	166,582	27.70
1972	5,086	28,884,634	802,385,522	5,679	157,764	27.78
1973	6,427	36,336,867	997,931,552	5,654	155,272	27.46
1974	6,695	37.131,063	1,266,540,323	5,546	189,177	34.11

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	19,101	80,995,626	820,775,000	4,240	42,970	10.13
1960	17,577	73,268,783	773,538,864	4,168	44,009	10.56
1961	17,110	73,300,612	773,967,327	4,284	45,235	10.56
1962	16,684	75,630,877	847,431,464	4,533	50,793	11.20
1963	16,396	74,702,588	790,300,052	4,556	48,201	10.58
1964	17,600	80,262,732	853,808,197	4,560	48.512	10.64
1965	15,967	75,664,405	848,541,238	4,739	53,143	11.21
1966	14,605	67,394,526	831,735,157	4,614	56,949	12.34
1967	13,045	62,309,864	802,148,507	4,777	61,491	12.87
1968	12,485	64,140,886	826,295,925	5,137	66,183	12.88
1969	12,639	67,075,559	887,537,373	5,307	70,222	13.23
1970	10,786	57,380,000	873,042,000	5,320	80,942	15.22
1971	9,956	53,936,938	864,132,673	5,418	86,795	16.02
1972	10,604	58,251,358	1,006,309,171	5,493	94,899	17.28
1973	10,112	55,656,749	1,069,625,386	5,504	105,778	19.22
1974	11,713	62,047,989	1,660,122,700	5,297	141,733	26.76

TOTAL WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(1)	49,279	196,839,000	2,471,718,287	4,035	50,158	12.43
1955(1)	55,931	225,157,031	2,600,143,000	4,026	46,488	11.55
1956(1)	57,125	232,173,708	2,868,410,000	4,084	50,213	12.35
1959	49,563	205,512,398	2,651,096,000	4,146	53,500	12.90
1960	44,133	186,380,947	2,424,418,308	4,223	54,934	13.01
1961	43,988	186,669,141	2.398,162,645	4,244	54,518	12.85
1962	43,944	193,557,166	2,576,675,359	4,405	58,635	13.31
1963	41,853	181,480,062	2,302,863,950	4,336	55,023	12.69
1964	43,486	188,745,437	2,427,367,186	4,340	55,820	12.86
1965	39,596	178,705,082	2,407,436,526	4,513	60,648	13.44
1966	34,521	157,922,256	2,360,740,311	4,575	68,386	14.95
1967	31,538	144,006,790	2,299,178,386	4,566	72,902	15.97
1968	29,576	143,128,764	2,409,360,399	4,839	81,463	16.83
1969	29,481	148,705,227	2,610,671,264	5,044	88,554	17.56
1970	27,177	136,890,000	2,578,682,000	5,037	94,885	18.84
1971	25,040	124,643,985	2,371,491,513	4,978	94,703	19.03
1972	26,443	135,535,538	2,814,165,789	5,126	106,424	20.76
1973	26,244	136,660,756	3,074,532,252	5,207	117,152	22.50
1974	31,481	150,944,294	4,366,988,802	4,795	138,718	28.93

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(1) Data pertaining to well classification not available.

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 11a

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

			OIL WELLS							GAS WELLS			
Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	16,276	66,067,802	2,256,506,972	4,059	138,640	34.15	1975	7,654	43,375,924	2,005,410,425	5,667	262,008	46.23
1976	16,876	68,257,180	2,549,652,613	4,044	151,064	37.35	1976	8,904	48,356,781	2,401,418,577	5,432	270,375	49.78
1977	18,077	74,660,343	3,072,754,536	4,130	169,981	41.16	1977	11,479	62,513,243	3,599,098,807	5,446	313,538	57.57
1978	17,790	74,410,764	3,700,025,078	4,182	207,983	49.73	1978	13,306	72,819,462	4,978,821,805	5,472	374,178	68.38
1979	19,243	80,261,003	4,678,560,366	4,170	243,130	58.30	1979	14,079	77,339,864	6,238,126,029	5,493	443,080	80.66
1980	28,553	117,066,167	7,768,436,920	4,099	272,070	66.37	1980	15,225	85,819,648	8,166,722,612	5,636	536,402	95.17
1981	38,725	161,982,066	13,022,804,253	4,183	336,289	80.40	1981	17,533	100,257,519	12,248,133,650	5,718	698,576	122.17
1982	35,865	144,304,502	12,458,580,454	4,024	347,374	86.33	1982	17,052	100,803,518	14,737,668,260	5,912	864,278	146.19
1983	33,485	130,823,929	9,503,761,060	3,907	283,821	72.64	1983	12,919	72,487,344	7,855,762,324	5,611	608,078	108.37
			DRY HOLES							TOTAL WELLS DRILLED			
1975	13,030	68,198,413	2,309,296,526	5,234	177,229	33.86	1975	36,960	177,642,139	6,571,213,923	4,806	177,793	36.99
1976	13,159	67,795,184	2,504,609,071	5,152	190,334	36.94	1976	38,941	184,418,145	7,461,680,261	4,736	191,615	40.46
1977	14,270	75,520,822	3,284,599,701	5,292	230,175	43.49	1977	43,826	212,694,408	9,956,453,044	4,853	229,181	46.82
1978	15,559	83,388,702	4,382,243,151	5,359	281,653	52.56	1978	46,655	230,618,928	13,061,090,034	4,943	279,950	56.64
1979	15,201	79,911,275	5,162,243,973	5,256	339,598	64.61	1979	48,523	237,512,142	16,078,930,368	4,894	331,367	67.71
1980	18,233	93,145,141	6,865,196,177	5,108	376,525	73.71	1980	62,011	296,030,956	22,800,355,709	4,773	367,682	77.03
1981	24,558	126,560,512	11,394,518,597	5,154	463,934	90.03	1981	80,816	388,800,097	36,665,456,500	4,811	453,691	94.30
1982	23,735	117,510,149	12,231,869,854	4,951	515,352	104.09	1982	76,652	362,618,169	39,428,118,568	4,731	514,378	108.73
1983	21,132	97,914,559	7,745,019,229	4,633	366,507	79.11	1983	67,536	301,225,832	25,104,542,613	4,460	371,721	83.35

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry"
Annual, American Petroleum Institute. Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

Section III
Table 12

FREE WORLD TOTAL WELL COMPLETIONS

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States	29,467	27,300	28,755	27,602	32,893	39,097	41,455	46,479	48,513	51,263	62,462	80,537	88,101
Canada	3,108	3,175	3,548	4,621	4,227	4,242	6,221	6,197	7,170	7,489	8,813	6,927	6,464
Mexico	502	516	431	422	408	353	336	307	406	333	434	412	336
Total North America	33,077	30,991	32,734	32,645	37,528	43,692	48,012	52,983	56,089	59,085	71,709	87,876	94,901
Argentina	579	595	623	597	606	552	646	647	865	773	953	904	822
Brazil	177	175	179	128	176	228	288	245	256	385	463	668	1,045
Ecuador	37	81	59	58	37	15	19	16	16	40	23	27	27
Peru	135	121	117	89	152	161	150	160	157	451	540	426	149
Trinidad-Tobago	135	220	196	212	200	189	192	217	215	188	218	243	200
Venezuela	589	464	371	427	416	284	337	446	637	1,030	1,275	1,491	1,500
Other	177	189	158	127	140	128	156	194	183	289	326	380	357
Total Latin America	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156	3,798	4,139	4,100
Total Western Hemisphere	34,906	32,836	34,437	34,283	39,255	45,249	49,800	54,908	58,418	62,241	75,507	92,015	99,001
Total North Sea	88	100	107	113	176	207	210	166	134	227	273	283	283
Other European	274	318	352	287	313	369	345	410	525	448	758	810	777
Total Europe	362	418	459	400	489	576	555	576	659	675	1,031	1,093	1,060
Algeria	115	109	80	83	79	107	54	130	60	267	249	159	0
Gabon	26	36	36	44	59	49	44	31	35	38	40	61	56
Libya	250	87	77	74	79	66	64	109	177	184	192	157	110
Nigeria	168	207	258	239	249	192	143	118	104	116	132	202	144
Other	150	214	194	157	162	191	130	208	208	236	257	369	461
Total Africa	709	653	645	597	628	605	435	596	584	841	870	948	771
Abu Dhabi(1)	7	19	37	37	64	49	82	67	78	89	123	146	169
Dubai(1)	0	7	16	18	17	17	30	31	12	7	13	11	23
Sharjah(1)	0	2	2	2	3	2	1	0	0	–	2	4	1
Iran	44	104	61	81	100	140	182	185	180	0	–	–	–
Iraq	6	17	0	16	2	0	2	NA	NA	66	67	–	–
Kuwait(2)	13	8	2	0	0	0	8	0	0	12	36	5	8
Saudi Arabia(2)	43	56	178	323	300	210	163	180	145	144	223	229	25
Neutral Zone(2)	23	12	9	13	19	14	15	4	0	3	4	5	6
Qatar	7	10	8	9	2	7	4	2	2	46	53	51	52
Oman	27	0	56	49	40	55	42	51	61	102	89	110	159
Other	72	58	56	61	83	102	75	124	107	143	207	210	128
Total Middle East	242	293	425	609	630	596	604	644	585	621	817	771	571
Indonesia	84	422	312	501	630	588	513	409	536	473	635	727	323
Other	162	157	223	197	180	157	229	295	440(4)	2,492	3,443	3,539	592
Total Far East	246	579	535	698	810	745	742	704	976	2,965	4,078	4,266	915
Total Eastern Hemisphere	1,559	1,943	2,064	2,304	2,557	2,522	2,336	2,520	2,804	5,102	6,796	7,078	3,317
TOTAL FREE WORLD	36,465	34,779	36,501	36,587	41,812	47,771	52,136	57,428	61,222	67,343	82,303	99,093	102,318

(1) Member of United Arab Emirates
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
(3) Less than one-tenth of one percent
NA Not Available

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

Section III
Table 13

FREE WORLD TOTAL EXPLORATORY WELL COMPLETIONS

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States	7,693	6,922	7,539	7,466	8,619	9,214	9,234	9,961	10,677	10,484	11,916	15,168	16,482
Canada	1,537	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925	3,857	3,074	2,346
Mexico	130	129	143	104	98	87	79	79	83	NA	85	63	65
Total North America	9,360	8,585	9,315	9,789	10,452	10,950	11,794	12,841	13,904	NA	15,858	18,305	18,893
Argentina	113	157	110	139	117	78	83	143	81	NA	110	127	107
Brazil	100	87	80	78	86	87	105	155	89	NA	166	245	328
Ecuador	20	15	20	8	5	3	3	5	3	NA	0	3	5
Peru	28	21	25	31	43	43	36	37	28	NA	13	17	12
Trinidad-Tobago	23	35	23	15	13	14	23	17	8	NA	51	16	23
Venezuela	90	44	64	63	76	35	45	48	60	NA	69	351	250
Other	70	60	77	50	65	61	67	56	60	NA	NA	211	150
Total Latin America	444	419	399	384	405	321	362	406	329	NA	409	970	879
Total Western Hemisphere	9,804	9,004	9,714	10,173	10,857	11,271	12,156	13,247	14,233	NA	16,267	19,275	19,772
Total North Sea	66	53	51	70	92	124	109	21	38	168	NA	135	201
Other European	93	146	159	147	151	172	163	231	259	157	NA	372	398
Total Europe	159	199	210	217	243	296	272	252	297	325	NA	507	599
Algeria	37	25	10	13	9	17	11	11	3	3	2	1	1
Gabon	13	11	17	15	13	23	19	19	20	22	15	23	16
Libya	51	41	34	25	32	36	22	33	41	30	35	43	34
Nigeria	31	55	61	45	51	33	21	24	35	22	31	26	30
Other	131	125	101	80	86	91	89	117	102	133	124	191	216
Total Africa	263	257	223	178	191	200	162	204	201	204	207	284	297
Abu Dhabi(1)	7	8	21	7	3	0	9	5	19	NA	6	NA	22
Dubai(1)	0	0	0	1	0	0	5	9	5	NA	2	NA	3
Sharjah(1)	0	2	1	0	0	0	1	0	0	NA	2	NA	1
Iran	11	6	2	18	27	26	26	25	10	NA	0	NA	0
Iraq	1	0	0	3	2	0	2	NA	NA	NA	0	NA	0
Kuwait(2)	1	2	0	0	0	0	2	0	0	NA	2	NA	8
Saudi Arabia(2)	2	2	6	3	4	9	24	4	25	NA	40	NA	25
Neutral Zone(2)	0	0	0	0	0	0	0	0	0	NA	0	NA	2
Qatar	2	1	6	1	0	0	0	0	0	NA	3	NA	4
Oman	2	0	16	0	0	0	0	10	24	NA	15	NA	31
Other	46	27	29	32	34	65	51	46	39	NA	18	NA	71
Total Middle East	72	48	81	65	70	100	120	99	122	NA	88	NA	167
Indonesia	84	135	137	169	176	186	130	115	146	NA	182	NA	167
Other	162	126	175	173	162	127	119	132	249(3)	NA	221	NA	297
Total Far East	246	261	312	342	338	313	249	247	395	377	403	125	464
Total Eastern Hemisphere	740	765	826	802	842	909	803	802	1,015	NA	698	916	1,527
TOTAL FREE WORLD	10,544	9,769	10,540	10,975	11,699	12,180	12,959	14,049	15,248	14,315	16,695	20,191	21,299

(1) Member of United Arab Emirates
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
(3) Includes Oceania
NA Not Available
NOTE: Complete data for 1979 through 1981 is not available for all areas.

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

Section III
Table 14

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1
California	173	134	157	165	169	138	143	119	97	80	93	80	82	97
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6
Louisiana	239	231	243	257	280	312	401	442	423	309	332	287	275	261
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2
North Carolina	0	0	0	0	1	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53
TOTAL	2,107	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637

Source: Hughes Tool Company

Section III
Table 14a

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	5	2	1	2	2	3	6	7	8	15	13	12	14	17
Alaska	6	5	6	13	21	20	28	14	5	5	5	9	14	14
Arkansas	10	9	11	10	8	7	16	13	15	15	15	18	14	15
Arizona	1	2	1	1	3	1	2	0	1	0	2	1	0	1
California	85	93	89	79	83	87	78	52	46	46	51	72	80	89
Colorado	23	21	19	16	16	17	23	25	30	35	42	46	42	38
Florida	0	1	4	2	2	1	1	4	11	18	9	7	9	5
Georgia	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Idaho	1	0	0	0	0	0	0	1	0	0	1	0	0	1
Illinois	25	20	24	30	30	22	17	14	13	14	6	7	19	22
Indiana	6	6	5	5	3	2	1	1	1	1	0	1	2	0
Iowa	1	0	0	1	0	0	0	0	1	2	1	0	2	0
Kansas	96	87	70	56	41	35	38	30	29	24	28	44	57	51
Kentucky	10	8	12	13	9	5	2	1	2	2	1	2	1	1
Louisiana	265	282	270	256	235	233	230	204	194	215	205	203	228	231
Maryland	0	2	2	4	0	1	1	0	0	1	0	0	0	1
Michigan	14	13	11	9	10	10	10	11	12	17	20	24	28	24
Mississippi	46	39	35	34	33	36	40	43	39	37	29	29	25	32
Missouri	1	0	0	1	0	0	0	0	0	0	1	0	0	0
Montana	22	21	26	24	22	34	31	17	17	20	19	24	27	28
Nebraska	12	11	10	8	5	5	10	6	5	6	5	7	9	8
Nevada	0	1	2	1	1	2	0	0	0	0	0	1	0	2
New Mexico	84	79	65	60	56	68	64	40	47	56	62	79	71	54
New York	1	1	1	1	1	1	0	0	1	0	1	7	8	9
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	9	14	12	12	11	13	12	9	9	7	10	12	17	19
Ohio	12	56	22	14	18	22	22	24	17	22	36	30	21	26
Oklahoma	158	158	163	141	101	106	120	98	90	90	115	146	177	186
Oregon	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Pennsylvania	12	11	9	10	7	5	7	9	9	3	11	14	10	10
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	2	0	0	1	1	2	1	1	1	1	1	2
Tennessee	0	0	0	1	1	0	1	2	1	0	0	0	0	0
Texas	500	477	425	387	340	329	322	302	291	338	376	508	638	653
Utah	22	17	14	14	15	12	12	12	17	34	38	42	26	19
Virginia	1	1	1	0	0	0	0	1	1	0	1	2	3	0
Washington	1	0	0	1	1	0	0	0	0	0	0	0	0	0
West Virginia	14	16	24	19	15	16	18	16	17	17	20	16	10	12
Wyoming	55	48	50	48	44	75	81	71	45	61	70	107	107	86
TOTAL	1,500	1,502	1,387	1,273	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656

Source: Hughes Tool Company

Section III
Table 14b

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	13	13	13	11	17	15	16	15
Alaska	15	16	13	14	23	22	14	14
Arkansas	14	14	10	27	34	27	26	26
Arizona	1	0	0	1	1	1	0	0
California	90	94	96	120	155	129	106	107
Colorado	45	41	40	61	82	60	52	54
Florida	6	6	5	4	8	5	4	4
Georgia	0	0	0	0	1	2	0	0
Hawaii	0	0	0	0	1	0	1	0
Idaho	1	3	2	3	3	2	1	1
Illinois	16	28	13	25	45	76	60	41
Indiana	3	4	0	0	1	7	6	7
Iowa	1	0	0	0	0	0	0	0
Kansas	67	76	66	120	196	157	124	128
Kentucky	2	3	0	0	5	10	8	8
Louisiana	292	338	347	427	456	343	283	310
Maryland	0	1	1	0	1	0	0	0
Michigan	24	24	25	31	36	31	29	34
Mississippi	41	44	40	58	71	42	33	32
Missouri	0	0	0	0	0	0	0	0
Montana	27	30	33	49	81	36	24	36
Nebraska	9	10	9	14	15	9	9	9
Nevada	3	2	4	5	5	3	1	5
New Mexico	69	76	88	118	135	103	65	78
New York	7	7	9	7	12	15	10	9
North Carolina	0	0	0	0	0	0	0	0
North Dakota	24	39	56	83	119	69	43	51
Ohio	33	45	46	75	98	57	39	51
Oklahoma	233	258	247	397	698	622	285	319
Oregon	0	0	1	1	2	1	0	0
Pennsylvania	15	25	29	29	44	33	22	36
Rhode Island	1	4	4	2	2	2	0	0
South Dakota	3	2	1	2	2	2	1	2
Tennessee	0	0	0	1	0	2	1	0
Texas	778	855	770	988	1,316	990	796	850
Utah	30	32	29	42	69	40	37	45
Virginia	1	1	1	1	3	2	2	2
Washington	0	0	0	0	1	1	1	1
West Virginia	17	27	30	38	45	49	34	38
Wyoming	120	137	147	156	191	143	96	115
TOTAL	2,001	2,255	2,176	2,910	3,970	3,105	2,229	2,428

Source: Hughes Tool Company

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1967			1968			1969			1970		
	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	28	10	38	18	14	32	34	14	48	27	18	45
Alaska	33	41	74	18	86	107	12	51	67	60	52	115
Offshore*	—	—	—	N.A.	N.A.	N.A.	2	44	50	1	18	21
Arizona	14	10	24	6	4	10	24	14	39	9	3	13
Arkansas	87	320	409	111	211	322	131	288	422	85	222	318
California	352	2,182	2,668	353	2,366	2,888	288	1,712	2,167	250	1,834	2,370
Offshore*	12	73	101	28	304	367	17	210	262	16	130	162
Colorado	277	262	539	270	224	495	538	276	820	476	234	710
Florida	11	—	11	9	4	13	8	5	13	10	15	25
Georgia	—	—	—	—	—	—	2	—	2	4	—	4
Idaho	—	—	—	—	—	—	—	—	—	—	—	—
Illinois	328	861	1,339	253	789	1,226	241	639	988	198	499	776
Indiana	254	220	510	158	179	367	178	189	407	144	143	302
Iowa	1	—	25	—	—	22	—	—	7	3	—	5
Kansas	1,270	1,937	3,345	1,186	1,849	3,107	1,058	1,919	3,105	833	1,588	2,465
Kentucky	458	1,086	1,647	453	828	1,379	256	696	1,030	228	581	885
Louisiana	935	2,209	3,185	1,026	2,415	3,478	865	2,272	3,174	671	2,277	2,985
Offshore*	296	559	867	352	696	1,068	147	678	835	140	698	851
Maryland	—	—	—	—	—	—	—	—	—	—	—	—
Massachusetts	—	—	—	—	—	—	—	—	—	—	—	—
Michigan	173	191	365	174	196	380	164	168	348	155	128	286
Minnesota	—	—	—	—	—	1	—	—	—	—	—	—
Mississippi	347	368	722	382	297	688	373	342	716	235	321	577
Missouri	4	—	19	4	12	38	7	22	57	4	10	14
Montana	302	252	580	465	400	882	499	296	834	424	179	621
Nebraska	95	84	179	196	89	288	285	98	388	161	76	238
Nevada	7	2	9	—	—	—	14	2	16	10	—	18
New Jersey	—	—	—	—	—	—	—	—	—	—	—	—
New Mexico	166	925	1,118	154	743	925	190	984	1,219	163	565	761
New York	35	176	238	9	97	120	6	128	166	11	88	110
North Carolina	—	—	—	—	—	—	—	—	—	—	—	—
North Dakota	60	93	156	121	62	186	178	74	252	109	58	168
Ohio	75	1,186	1,267	79	1,084	1,165	53	1,185	1,255	36	1,314	1,351
Oklahoma	421	2,431	3,074	422	2,318	2,996	546	2,567	3,395	458	2,227	2,901
Oregon	1	—	1	—	—	—	—	—	—	—	—	—
Offshore*	1	—	1	—	—	—	—	—	—	—	—	—
Pennsylvania	59	564	683	62	733	897	43	853	1,018	40	683	774
South Dakota	4	—	4	4	—	4	56	—	56	83	—	83
Tennessee	47	—	47	25	1	26	23	3	27	22	28	50
Texas	2,508	6,628	9,576	2,207	5,407	8,743	2,718	5,938	9,233	2,098	5,624	8,114
Offshore*	61	41	102	40	13	53	103	11	114	51	9	60
Utah	67	75	144	41	58	99	103	71	175	43	40	85
Vermont	—	—	—	—	—	—	1	—	1	—	—	—
Virginia	—	—	—	—	—	—	8	2	10	—	—	—
Washington	3	—	3	2	—	2	—	—	—	—	—	—
Offshore*	1	—	1	—	—	—	—	—	—	—	—	—
West Virginia	36	738	777	87	646	735	83	819	920	74	790	882
Wyoming	420	505	1,042	584	608	1,293	716	859	1,678	569	830	1,416
N. Gulf of Mexico(2)	—	—	—	—	—	—	—	—	—	—	—	—
Total	8,878	23,356	33,818	8,879	21,720	32,914	9,701	22,486	34,053	7,693	20,427	29,467

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 15a

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1971 Explor-atory	1971 Develop-ment	1971 Total(1)	1972 Explor-atory	1972 Develop-ment	1972 Total(1)	1973 Explor-atory	1973 Develop-ment	1973 Total(1)	1974 Explor-atory	1974 Develop-ment	1974 Total(1)
Alabama	48	14	64	85	30	116	70	32	102	58	40	98
Alaska	5	27	32	13	13	31	14	20	35	12	26	38
Offshore*	--	1	1	--	4	7	3	6	10	--	11	11
Arizona	5	3	8	12	10	23	4	4	8	5	6	11
Arkansas	92	250	365	101	243	350	79	206	292	90	227	320
California	220	1,585	2,083	186	1,209	1,683	202	1,005	1,325	235	1,715	2,153
Offshore*	15	55	74	4	60	86	1	49	63	6	58	71
Colorado	563	374	939	512	493	1,008	442	398	840	338	498	843
Florida	13	8	22	42	67	113	37	30	67	30	15	48
Georgia	2	--	2	2	--	2	3	--	3	5	--	5
Idaho	--	--	--	--	--	--	6	--	6	2	--	2
Illinois	165	399	636	149	453	655	196	360	611	220	575	823
Indiana	114	101	232	131	138	285	139	100	259	168	208	390
Iowa	1	--	1	--	--	--	--	--	--	2	--	2
Kansas	741	1,608	2,413	764	1,634	2,458	739	1,314	2,114	847	1,843	2,825
Kentucky	202	559	810	220	536	822	164	467	661	184	474	697
Louisiana	802	2,133	2,983	736	2,329	3,093	712	2,192	2,940	646	2,124	2,830
Offshore*	267	534	823	207	598	812	208	690	914	151	510	680
Maryland	--	--	--	--	--	--	--	--	1	2	--	2
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	161	141	305	182	127	317	176	102	281	258	144	414
Mississippi	200	286	498	236	181	462	207	143	361	292	150	450
Missouri	6	7	13	3	--	6	8	1	9	24	8	101
Montana	303	124	457	447	306	773	435	207	647	381	291	673
Nebraska	107	80	189	198	94	292	102	61	163	155	75	230
Nevada	13	--	13	2	--	2	--	--	--	2	--	2
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	129	687	833	216	818	1,059	191	859	1,098	209	919	1,142
New York	10	90	129	14	116	145	21	127	161	49	243	348
North Carolina	12	--	12	--	--	--	--	--	--	11	--	11
North Dakota	97	62	162	65	34	99	72	50	124	74	53	128
Ohio	27	1,130	1,161	55	1,276	1,333	60	1,444	1,504	172	1,616	1,790
Oklahoma	415	1,840	2,490	416	1,884	2,519	352	1,929	2,403	396	2,661	3,189
Oregon	--	--	--	--	--	--	3	--	3	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	22	619	701	66	835	956	97	1,002	1,142	101	1,107	1,322
South Dakota	35	--	36	26	10	36	21	1	22	9	2	11
Tennessee	128	67	195	67	27	94	66	32	100	85	50	135
Texas	1,818	5,453	7,728	1,973	5,693	8,088	2,325	5,773	8,494	2,907	6,622	9,808
Offshore*	38	6	44	47	6	53	66	6	72	150	13	163
Utah	55	32	87	86	74	160	70	125	196	56	139	196
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	18	18	4	5	9	8	53	61
Washington	--	--	--	--	--	12	--	--	--	--	--	--
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	66	702	780	83	591	679	80	621	701	102	677	780
Wyoming	345	548	921	451	513	1,066	369	516	920	470	518	1,001
N. Gulf of Mexico(2)	--	--	--	--	--	--	--	--	--	14	--	14
Total	6,922	18,929	27,300	7,539	19,752	28,755	7,466	19,126	27,602	8,619	23,079	32,893

* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

	1975			1976			1977			1978		
STATE/AREA	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	65	45	110	69	64	133	44	88	133	63	105	169
Alaska	22	41	67	7	55	81	29	46	83	8	49	64
Offshore*	1	13	14	—	13	20	10	12	30	5	7	14
Arizona	2	—	3	—	—	—	—	—	—	4	3	7
Arkansas	78	243	329	76	354	440	86	399	495	95	347	450
Atlanta Coast							—	—	1	7	-	7
California*	205	1,999	2,615	233	1,965	2,540	296	2,203	2,917	356	1,567	2,389
Offshore	6	62	73	2	26	28	22	32	61	14	67	86
Colorado	413	778	1,198	372	675	1,052	383	822	1,211	463	733	1,224
Florida	27	19	47	14	16	30	12	13	29	16	13	29
Georgia	3	—	3	4	—	4	—	—	—	—	—	—
Idaho	1	—	1	2	—	2	1	—	1	6	—	6
Illinois	254	702	1,041	247	1,066	1,527	241	864	1,174	265	829	1,167
Indiana	156	217	400	195	290	507	277	339	624	267	400	683
Iowa	—	—	—	—	—	—	1	—	1	—	—	—
Kansas	879	2,180	3,398	914	2,793	3,977	980	2,824	3,933	1,107	3,128	4,322
Kentucky	313	605	973	373	700	1,094	365	640	1,039	351	573	961
Louisiana	708	2,328	3,098	611	2,814	3,476	645	2,710	3,398	662	2,396	3,084
Offshore*	151	495	653	102	567	678	137	634	781	119	553	683
Maryland	1	—	1	—	2	2	—	—	—	—	—	—
Massachusetts-Off	—	—	—	—	—	1	—	—	—	—	—	—
Michigan	272	244	519	282	216	522	329	266	600	266	241	521
Mississippi	263	188	453	266	201	469	260	275	540	247	239	489
Missouri	16	6	92	8	15	45	9	4	54	7	25	49
Montana	379	531	913	321	351	674	319	440	761	308	363	673
Nebraska	202	136	345	188	134	323	232	180	424	221	160	384
Nevada	4	—	4	7	—	7	14	5	19	13	3	16
New Jersey	—	—	—	—	—	1	—	—	—	—	—	—
New Mexico	170	1,043	1,247	172	811	1,006	172	1,164	1,350	174	1,371	1,583
New York	21	373	437	52	503	596	50	393	538	47	364	482
North Carolina	2	—	2	—	—	1	—	—	—	—	—	—
North Dakota	109	98	213	116	118	234	106	118	225	163	164	327
Ohio	121	1,099	1,223	171	1,748	1,919	125	2,466	2,593	40	2,564	2,606
Oklahoma	394	3,252	3,796	434	3,782	4,393	473	4,466	4,976	502	5,320	5,859
Oregon	—	—	—	—	—	—	2	—	2	—	—	—
Offshore*	—	—	—	—	—	—	—	—	—	—	—	—
Pennsylvania	109	1,290	1,496	71	1,191	1,311	93	1,361	1,462	96	1,631	1,748
South Dakota	22	2	28	27	5	32	22	18	41	17	28	45
Tennessee	143	60	203	165	50	215	156	88	244	151	71	222
Texas	3,203	8,883	12,483	3,269	9,141	12,740	3,549	10,730	14,759	3,741	10,565	14,747
Offshore*	162	10	174	147	79	226	143	195	338	143	147	290
Utah	66	128	196	39	82	126	94	179	277	79	182	277
Vermont	—	—	—	—	—	—	—	—	—	—	—	—
Virginia	8	28	36	3	8	11	9	16	25	5	26	31
Washington*	—	—	—	3	—	3	—	—	—	—	—	—
Offshore	—	—	—	—	—	—	—	—	—	—	—	—
West Virginia	91	700	794	99	809	956	108	1,062	1,213	165	1,228	1,404
Wyoming	461	802	1,301	395	571	975	465	826	1,307	477	905	1,395
N. Gulf of Mexico(2)	31	1	32	29	1	30	14	16	30	7	13	20
Total	9,214	28,021	39,097	9,234	30,531	41,445	9,961	35,021	46,479	10,677	36,380	48,513

* Included in state total.
(1) Includes service wells, stratigraphic and core tests.
(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 15c

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

STATE/AREA	1979			1980			1981			1982		
	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	97	117	214	80	109	189	76	133	212	70	133	207
Alaska	20	49	77	14	116	134	20	118	141	8	190	203
Offshore*	6	4	10	--	3	5	--	--	--	--	--	--
Arizona	2	6	8	4	--	4	6	--	7	6	8	16
Arkansas	105	394	505	111	496	612	153	722	887	127	652	796
Atlantic Coast(3)	18	--	18	4	--	4	--	--	--	--	--	--
California	363	1,457	2,150	410	1,829	2,659	492	2,196	3,224	489	2,214	3,147
Offshore*	7	87	120	7	72	107	6	118	165	14	150	184
Colorado	439	590	1,036	487	765	1,253	737	964	1,707	743	1,244	1,990
Florida	15	22	41	5	6	12	9	12	23	11	14	25
Georgia							3	--	3	2	--	2
Idaho	2	--	2	6	--	6	5	--	5	5	--	5
Illinois	233	897	1,208	444	1,535	2,127	663	2,477	3,282	648	2,353	3,142
Indiana	186	305	500	324	404	746	348	461	831	449	573	1,051
Kansas	1,078	3,158	4,306	1,097	3,981	5,161	1,492	5,251	6,865	2,110	6,833	9,166
Kentucky	354	584	986	447	813	1,294	508	1,187	1,780	821	2,159	3,109
Louisiana	678	3,362	4,078	798	4,064	4,956	957	4,422	5,573	825	4,183	5,060
Offshore*	116	563	679	148	487	642	179	516	696	158	420	648
Maryland	--	--	9	--	--	--	--	--	--	--	--	--
Michigan	246	262	527	321	344	682	381	364	766	423	370	810
Mississippi	244	271	544	280	339	631	342	411	758	282	340	622
Missouri	15	50	81	15	8	31	34	79	223	92	262	469
Montana	298	451	750	374	501	882	432	628	1,064	427	755	1,204
Nebraska	258	191	453	293	242	538	263	342	607	227	221	453
Nevada	10	4	16	12	1	13	20	1	24	24	2	29
New Mexico	201	1,358	1,607	292	1,643	1,966	294	2,077	2,451	352	1,881	2,298
New York	51	366	428	20	458	494	108	465	581	44	480	525
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	144	220	364	242	343	586	377	364	743	448	367	816
Ohio	125	3,367	3,492	60	3,209	3,269	102	5,340	5,455	146	4,360	4,515
Oklahoma	484	5,863	6,362	508	8,533	9,073	651	10,649	11,329	682	11,301	12,008
Oregon	17	4	21	22	9	31	30	--	30	8	--	8
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	68	1,789	1,941	131	1,825	2,020	405	3,018	3,554	214	3,828	4,224
South Dakota	34	16	50	17	23	41	42	37	79	35	35	70
Tennessee	94	133	227	188	152	340	188	127	315	244	148	392
Texas	4,011	11,588	16,149	4,274	14,423	19,253	5,102	18,468	23,940	5,464	20,689	26,849
Offshore*	119	93	212	102	64	166	97	88	185	116	116	232
Utah	86	168	255	91	186	280	173	246	421	172	374	551
Virginia	4	21	25	1	13	14	3	38	41	29	70	99
Washington	--	--	--	--	--	--	--	--	--	6	--	16
Offshore*	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	108	1,332	1,474	112	1,565	1,717	155	1,668	1,882	157	1,846	2,045
Wyoming	379	930	1,335	412	977	1,407	575	1,098	1,705	665	1,397	2,122
N. Gulf of Mexico(2)	17	7	24	16	17	33	22	7	29	23	31	54
Alaska(3)	--	--	--	4	--	4	--	--	--	--	--	--
Pacific Coast(4)										4	--	4
Total	10,484	39,332	51,263	11,916	48,929	62,462	15,168	63,370	80,537	16,482	69,313	88,108

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* Included in state total.

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(3) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS REPORTED AS COMPLETED BY STATE

	1983			1984		
STATE/AREA	Exploratory	Development	Total(1)	Exploratory	Development	Total(1)
Alabama	87	105	192	112	175	287
Alaska	2	170	188	7	115	130
Offshore*	0	18	22	0	5	5
Arizona	10	1	16	7	0	7
Arkansas	152	688	860	124	681	821
Atlantic Coast(3)	12	0	12	3	0	3
California*	222	2,448	3,163	197	3,256	3,944
Offshore	14	127	171	14	108	128
Colorado	510	954	1,467	523	1,101	1,624
Florida	14	10	24	12	9	21
Georgia	0	0	0	2	0	2
Idaho	2	0	2	6	0	6
Illinois	639	2,028	2,753	656	2,106	2,881
Indiana	456	536	1,027	402	514	976
Kansas	1,559	5,599	7,406	2,267	5,040	7,451
Kentucky	973	2,174	3,278	1,865	3,926	5,952
Louisiana*	573	3,923	4,575	733	5,634	6,475
Offshore	107	600	709	187	780	967
Maryland	2	0	2	0	0	0
Michigan	323	488	823	443	480	934
Mississippi	266	307	573	246	313	559
Missouri	50	118	264	49	103	207
Montana	191	374	570	219	439	669
Nebraska	173	181	355	174	171	356
Nevada	9	0	9	19	3	22
New Mexico	218	1,340	1,601	205	1,418	1,664
New York	43	439	483	34	510	545
North Carolina	0	0	0	0	0	0
North Dakota	205	331	537	272	379	651
Ohio	183	5,900	6,098	127	4,605	4,767
Oklahoma	647	9,363	10,043	539	9,290	9,887
Oregon	0	0	0	1	0	1
Offshore*	0	0	0	0	0	0
Pennsylvania	121	2,332	2,531	86	2,460	2,592
South Dakota	48	32	80	18	12	30
Tennessee	643	284	927	114	389	503
Texas	4,820	19,144	24,616	4,883	20,556	26,134
Offshore*	193	164	357	92	74	166
Utah	136	265	421	101	296	397
Virginia	15	22	37	0	59	59
Washington*	2	0	2	0	0	5
Offshore	0	0	0	0	0	0
West Virginia	114	1,865	2,025	44	1,894	1,969
Wyoming	439	979	1,492	511	997	1,552
N. Gulf of Mexico(2)	11	42	53	58	24	82
Alaska(3)	0	0	0	1	0	1
Pacific Coast(3)	17	0	17	17	0	17
Total	13,887	62,439	78,542	15,077	66,955	84,183

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* Included in state total

(1) Includes service wells, stratigraphic and core tests.

(2) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(3) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 16

U.S. ROTARY RIG CENSUS

						DRILLING DEPTH CAPABILITIES (Thousand Feet)							
Year	Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	0-5	6-9	10-12	13-15	16-Over	Total Land Rigs	Drilling Barges	Offshore Rigs
1967(1)	2,408	2,359	49	835	1,573	623	776	435	199	375	2,114	121	173
1968	2,111	2,067	44	603	1,508	493	680	381	185	372	1,825	114	172
1969	2,060	2,033	27	411	1,649	528	626	352	188	366	1,827	98	135
1970	1,898	1,869	29	567	1,331	434	580	322	219	343	1,662	106	130
1971	1,859	1,832	27	551	1,308	436	535	329	198	361	1,592	124	143
1972	1,768	1,741	27	387	1,381	409	490	301	171	397	1,551	77	140
1973	1,767	1,739	28	294	1,473	355	517	318	164	413	1,570	71	126
1974	1,894	1,881	13	125	1,769	387	529	339	214	425	1,715	66	113
1975	2,028	2,015	14	151	1,877	396	579	380	225	558	1,839	74	115
1976	2,204	2,180	24	225	1,979	468	633	366	239	498	1,964	76	164
1977	2,482	2,451	31	83	2,399	542	628	461	274	577	2,186	77	219
1978	2,851	2,818	33	66	2,785	557	723	565	313	693	2,524	91	236
1979	3,182	3,144	38	308	2,874	546	783	631	350	872	2,802	109	271
1980	3,672	3,626	46	130	3,542	605	885	704	419	1,059	3,255	115	302
1981	4,803	4,762	41	100	4,703	773	1,080	950	595	1,405	4,316	161	326
1982	5,644	5,606	38	2,419	3,225	821	1,285	1,104	717	1,717	5,139	157	348
1983	5,273	5,241	32	2,734	2,539	746	1,233	993	662	1,639	4,832	128	313
1984	4,580	4,553	27	1,490	3,090	571	1,077	933	591	1,408	4,102	131	347

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(1) Data for prior years not available on a comparable basis.

Source: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year)

Section III
Table 17

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	—	—	—	—	—	—	—	—	—	—	—	—	4	4
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	2	2
Arizona	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Arkansas	160	165	168	179	190	200	230	240	240	255	260	300	320	370
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466
Florida	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479
Maryland	—	—	—	—	—	—	—	—	—	—	—	—	38	38
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	—	9
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999
Nebraska	—	—	—	—	—	—	—	—	—	—	—	—	50	53
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047
New York	1,700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000
North Dakota	—	—	—	—	—	—	—	—	—	—	—	—	28	28
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063
Oklahoma	3,250	3,400	3,500	3,600	3,600	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350
South Dakota	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tennessee(1)	—	18	18	18	20	20	27	28	28	28	30	30	25	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612
Utah	—	—	—	—	—	—	—	—	—	—	—	—	37	35
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	53	92
West Virginia	15,800	16,100	15,500	13,900	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350
Other	30	34	40	43	70	100	109	117	125	130	145	170	—	—
Total	63,670	64,212	64,146	64,900	65,100	65,450	68,233	70,192	71,475	74,261	77,041	80,400	83,225	90,761

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(1) Prior to 1948 included with Kentucky

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section III
Table 17a

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	—	—	2	—	—	—	—	1	1	2	—	15	15	6
Alaska	5	8	10	13	11	19	21	18	44	51	40	50	52	52
Arizona	—	3	7	10	8	9	7	4	4	4	5	4	4	1
Arkansas	485	480	490	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172
California	774	826	879	950	1,033	1,068	1,059	994	897	980	962	1,086	1,095	1,142
Colorado	462	451	501	560	701	826	827	810	805	861	928	934	1,050	1,347
Florida	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Illinois	74	30	25	25	25	3	3	5	5	8	14	31	36	37
Indiana	300	290	285	280	275	275	271	265	263	50	83	87	106	474
Kansas	6,633	6,915	7,050	7,174	7,200	8,608	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800
Kentucky	5,119	5,200	5,210	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307
Louisiana	6,990	7,442	7,859	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248
Maryland	34	33	33	16	20	8	13	15	13	16	14	16	15	15
Michigan	155	174	175	195	226	250	244	199	211	1,235	1,171	1,317	1,145	503
Mississippi	472	490	450	435	370	376	360	347	322	325	400	252	250	239
Missouri	9	6	6	6	11	11	11	11	11	11	2	3	2	3
Montana	981	954	905	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450
Nebraska	49	47	44	41	39	37	37	36	35	35	29	29	29	25
New Mexico	6,491	6,967	7,150	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915
New York	1,109	1,130	1,130	1,155	1,150	1,164	1,159	1,155	818	600	600	650	789	700
North Dakota	28	29	31	31	31	31	31	19	33	29	29	21	44	34
Ohio	7,077	7,117	7,128	7,160	7,100	3,790	3,865	7,211	7,334	7,789	8,179	8,630	9,406	10,038
Oklahoma	6,218	6,324	6,639	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401
Pennsylvania	16,500	16,600	16,600	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,600	16,600	17,123
South Dakota	—	—	—	—	—	—	—	—	—	—	—	5	10	20
Tennessee	23	30	30	30	20	20	21	23	26	15	20	45	6	13
Texas	19,831	20,834	22,016	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646
Utah	135	121	135	135	148	156	168	165	171	173	178	200	158	114
Virginia	98	98	98	100	99	104	104	111	111	115	115	130	178	174
West Virginia	16,297	17,121	17,500	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450
Wyoming	460	547	578	610	701	741	749	787	521	800	840	887	850	900
Total	96,809	100,267	102,966	103,084	111,680	112,498	112,321	114,391	114,476	117,483	120,210	121,158	124,178	126,349

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section III
Table 17b

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	45	66	69	189	250	314	385	489	461
Alaska	61	50	50	52	58	71	79	97	78
Arizona	1	1	1	1	1	1	1	1	1
Arkansas	1,128	1,223	1,253	1,335	1,402	1,114	1,600	1,959	1,763
California	1,585	1,123	1,050	1,131	1,117	1,125	1,110	1,352	1,413
Colorado	1,380	1,500	2,053	2,318	2,574	2,997	3,543	4,008	4,391
Florida	—	--	--	--	—	—	--	—	—
Illinois	41	34	34	51	51	70	70	57	64
Indiana	478	563	596	641	655	698	720	736	737
Kansas	8,865	9,330	9,375	9,450	10,544	12,820	15,550	13,800	14,100
Kentucky	7,386	7,505	7,649	7,776	7,883	7,984	8,151	8,219	8,532
Louisiana	11,359	11,370	12,484	13,333	14,464	16,190	17,048	16,586	16,700
Maryland	15	14	12	12	12	9	10	8	8
Michigan	209	214	212	376	376	423	448	484	414
Mississippi	248	257	365	402	433	447	470	596	552
Missouri	3	3	7	7	0	0	0	0	0
Montana	1,235	1,490	1,438	1,755	1,881	1,881	2,140	2,111	2,133
Nebraska	19	17	18	22	20	22	25	23	23
New Mexico	10,352	10,674	11,812	12,609	13,598	14,571	15,560	16,967	17,547
New York	900	1,400	1,600	1,900	2,200	2,076	2,636	2,969	3,423
North Dakota	18	34	34	23	78	80	65	66	51
Ohio	10,382	11,509	13,032	14,197	15,827	17,251	19,405	22,112	25,762
Oklahoma	9,769	10,436	11,570	12,861	14,417	16,419	18,451	20,742	22,230
Oregon	0	0	0	0	5	5	9	6	8
Pennsylvania	17,300	17,500	17,396	18,900	19,800	19,900	21,500	23,000	24,000
South Dakota	20	20	20	20	10	13	39	38	40
Tennessee	5	7	49	75	184	177	255	340	540
Texas	26,184	27,762	31,512	33,157	35,650	37,724	40,612	44,130	44,699
Utah	271	71	535	171	182	200	226	282	322
Virginia	186	180	202	227	258	258	288	298	299
West Virginia	21,700	22,100	22,600	23,575	24,725	25,900	27,200	27,450	29,675
Wyoming	950	990	995	888	1,236	1,264	1,243	1,827	1,986
Total	132,095	137,443	148,018	157,454	169,891	182,004	198,839	210,753	221,952

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section III
Table 18

PRODUCING OIL WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	221	281	334	380
Alaska	—	—	—	—	—	—	—	—	—	—	—	2	5	17
Arizona	—	—	—	—	—	—	—	—	—	—	—	1	2	3
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021
Florida	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	11	11	11	11
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3.086
Missouri	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	107	127	121	120
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571
Nevada	—	—	—	—	—	—	(1)	—	—	—	2	2	2	2
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579
North Dakota	—	—	—	(1)	(1)	83	257	460	570	789	920	1,150	1,390	1,451
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260
South Dakota	—	—	—	—	—	—	(1)	(1)	(1)	(1)	3	4	14	19
Tennessee	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	35	35	34	27
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934
Utah	—	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	225	519	697	796
Virginia	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	4	6	7	5
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475
Other	140	160	190	230	270	297	333	364	366	422	—	1 (2)	1 (2)	1 (2)
Total	426,280	437,880	448,680	465,870	474,990	488,520	498,940	511,200	524,010	551,170	569,273	574,905	583,141	591,158

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(1) Included in Other
(2) Washington

Source: U.S. Bureau of Mines, Annual Petroleum Statements

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	418	449	502	519	518	524	532	546	550	562	556	544	586	582	608	633
Alaska	45	52	54	56	57	72	94	163	183	202	173	193	192	199	205	181
Arizona	5	4	9	8	10	6	20	22	29	28	30	28	28	25	28	27
Arkansas	6,330	5,918	6,010	6,018	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529
California	38,184	39,265	40,233	40,916	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534
Colorado	2,023	2,110	2,030	1,981	1,938	2,371	1,730	1,825	1,811	1,770	1,785	1,897	2,004	2,174	2,450	2,827
Florida	11	11	12	19	38	42	41	44	45	60	78	142	147	136	143	143
Illinois	31,911	30,174	30,149	29,500	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527
Indiana	5,679	5,607	5,951	5,381	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891
Kansas	40,933	46,750	46,951	46,715	47,354	46,016	47,597	45,145	44,665	43,490	42,180	41,055	41,520	41,755	41,945	42,240
Kentucky	19,857	19,448	14,903	15,226	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970
Louisiana	24,740	26,382	27,638	29,452	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274
Michigan	4,301	4,282	4,234	4,151	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770
Mississippi	2,819	2,560	2,682	2,580	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212
Missouri	116	105	105	100	142	150	146	128	164	126	139	137	135	157	163	173
Montana	3,342	3,692	3,642	3,329	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309
Nebraska	1,860	1,764	1,726	1,711	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291
Nevada	4	4	4	5	9	10	13	13	11	9	6	6	6	9	6	12
New Mexico	15,295	16,102	16,796	17,570	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939
New York	17,829	13,537	13,431	12,526	12,304	11,832	4,712	4,201	5,263	5,861	5,860	5,427	5,200	5,475	4,975	5,100
North Dakota	1,683	1,794	1,824	1,881	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568
Ohio	16,682	16,867	14,605	13,752	13,947	14,192	14,638	15,480	15,737	15,860	14,771	15,222	15,236	16,658	16,611	16,761
Oklahoma	79,387	80,799	81,475	80,511	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543
Pennsylvania	63,576	59,673	54,062	53,065	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805
South Dakota	19	19	24	24	28	29	28	27	26	26	33	29	27	31	38	43
Tennessee	30	40	39	38	33	32	33	32	35	59	78	73	67	154	172	215
Texas	196,396	197,659	198,070	199,119	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546
Utah	795	852	835	840	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188
Virginia	5	5	6	8	6	2	4	5	5	5	1	1	—	3	7	7
West Virginia	12,762	12,880	13,044	13,205	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800
Wyoming	7,880	7,581	7,611	8,019	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052
Other	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	594,917	596,385	588,657	588,225	589,203	583,302	565,289	553,920	542,227	530,990	517,318	508,443	497,378	497,631	500,333	499,110

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section III
Table 18b

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	631	648	660	684	692	719	741	759
Alaska	298	348	396	443	700	760	672	640
Arizona	29	34	35	31	35	36	34	31
Arkansas	7,756	7,866	8,115	8,104	8,249	8,629	8,370	9,490
California	43,525	43,375	43,838	45,086	47,362	47,231	47,197	48,541
Colorado	3,027	3,260	3,450	3,490	2,898	3,113	4,591	5,360
Florida	140	111	115	121	117	123	137	138
Illinois	23,752	23,900	24,067	24,871	26,100	27,600	28,967	28,920
Indiana	5,076	5,296	5,452	5,452	5,715	6,047	6,465	6,792
Kansas	42,450	42,900	43,200	48,037	42,402	46,189	49,348	49,198
Kentucky	14,046	14,097	14,172	14,539	14,585	15,109	15,562	19,980
Louisiana	23,881	24,500	24,767	26,014	25,320	22,380	23,376	24,508
Michigan	3,903	3,890	3,890	4,900	4,417	4,536	4,913	4,881
Mississippi	2,806	2,956	3,263	3,676	3,154	2,640	2,727	2,562
Missouri	175	167	251	258	421	499	552	557
Montana	3,330	3,400	3,661	3,618	3,968	4,311	4,675	4,716
Nebraska	1,382	1,469	1,551	1,693	1,870	2,006	2,100	2,095
Nevada	18	16	20	20	(1)	(1)	(1)	(1)
New Mexico	14,338	17,453	21,526	15,103	16,289	16,526	17,409	18,146
New York	4,800	5,039	5,100	5,220	5,300	5,320	5,432	4,678
North Dakota	1,608	2,305	2,624	2,938	2,570	2,870	3,734	3,404
Ohio	17,338	18,289	19,596	21,132	22,441	24,752	26,287	26,878
Oklahoma	73,752	75,308	76,505	81,296	82,639	91,745	95,868	99,600
Pennsylvania	28,400	27,768	27,925	25,991	26,138	25,285	24,657	20,739
South Dakota	69	85	94	97	120	130	140	138
Tennessee	283	311	351	435	489	650	693	775
Texas	163,746	166,365	169,826	175,673	180,627	187,626	195,595	203,664
Utah	1,448	1,291	1,560	1,714	1,543	1,583	1,634	1,799
Virginia	4	5	7	8	(1)	(1)	(1)	(1)
West Virginia	13,900	14,100	14,250	14,425	14,700	14,900	15,300	15,475
Wyoming	11,123	10,200	11,128	12,648	11,574	11,792	11,349	11,561
Other	0	0	0	0	39	50	55	68
Total	507,034	516,752	531,395	547,717	557,009(2)	580,142(2)	603,290(2)	620,197(2)

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(1) Included in other.

(2) In 1981, total includes 4,535 producing wells in federal waters, in 1982 4,985 in federal waters, and in 1983 4,710 in federal waters.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1984 -- World Oil, Forecast Review Issue, February 15 issue

Section III
Table 19

Producing Oil Wells by State and by Type
(as of December 31)

	1947		1948		1949		1950		1951		1952	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	33	0	33	0	39	0	58	0	75	4	92
Alaska	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	378	2,992	340	3,040	291	3,076	361	3,266	312	3,329	350	3,758
California	2,363	22,792	2,136	24,413	2,373	22,127	2,143	25,963	1,934	27,656	1,866	29,005
Colorado	127	411	113	611	87	662	191	572	135	700	85	886
Florida	4	1	5	3	5	6	1	11	1	11	1	11
Illinois	68	28,405	48	30,261	71	31,169	16	33,113	12	32,873	7	33,727
Indiana	2	2,807	18	3,252	35	3,739	12	3,946	18	4,222	22	4,473
Kansas	85	26,846	143	24,975	62	29,033	73	30,093	45	31,215	58	32,018
Kentucky	0	14,509	0	14,554	0	14,895	5	15,260	36	15,524	0	15,806
Louisiana	3,168	4,516	3,367	5,508	3,320	6,689	3,477	7,667	3,417	8,106	3,591	8,770
Michigan	276	3,356	296	3,131	387	3,268	141	3,577	155	3,730	134	3,858
Mississippi	426	636	495	737	476	886	280	1,168	126	1,466	206	1,504
Missouri	0	36	0	48	0	88	0	46	0	43	0	70
Montana	24	2,455	24	3,140	39	2,865	20	3,086	22	3,188	30	3,286
Nebraska	0	55	0	46	0	62	35	107	27	181	2	221
Nevada	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	3,636	1,395	3,288	2,004	3,014	2,509	3,232	2,597	3,283	2,768	3,462	3,141
New York	0	23,000	0	23,000	0	23,400	0	23,200	0	23,100	0	23,000
North Dakota	0	0	0	0	0	0	0	0	2	0	68	17
Ohio	50	22,825	65	22,945	60	21,740	50	19,750	50	18,450	40	19,410
Oklahoma	1,485	50,405	1,380	51,731	1,426	52,934	1,740	55,086	1,605	56,715	1,485	58,762
Pennsylvania	0	82,800	0	84,000	0	82,100	0	82,200	0	81,200	0	81,200
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	0	22	0	29	0	35	0	36	0	34	0	35
Texas	37,070	67,909	37,970	71,673	39,203	76,280	41,949	81,322	44,016	86,293	45,784	90,615
Utah	0	0	2	1	22	0	3	30	4	38	10	51
Virginia	0	12	0	15	0	15	0	15	0	15	0	25
Washington	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	17,000	0	16,200	0	15,900	0	15,200	0	14,600	0	14,200
Wyoming	247	3,905	336	4,222	464	4,452	323	4,887	313	5,292	242	4,614
U.S. Total*	49,399	379,123	50,036	389,572	51,335	397,969	54,052	412,256	55,513	420,824	57,447	432,375

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1953		1954		1955		1956		1957		1958	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	2	110	5	108	11	102	62	97	35	181	27	227
Alaska	0	0	0	0	0	0	0	0	0	0	1	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	336	3,699	270	3,925	410	4,057	382	4,419	246	5,173	232	5,417
California	1,834	29,950	1,770	31,303	1,759	32,571	1,599	34,625	1,496	35,756	1,290	35,170
Colorado	132	1,098	97	1,633	345	1,784	433	1,724	572	1,612	573	1,625
Florida	0	12	0	13	0	11	0	11	0	11	0	11
Illinois	5	34,417	10	35,155	27	36,758	29	37,689	213	37,828	231	38,366
Indiana	9	4,825	3	4,954	23	5,011	19	5,160	300	4,816	173	5,094
Kansas	42	33,272	31	34,523	121	35,452	127	36,986	103	38,466	131	39,133
Kentucky	0	16,234	0	16,593	12	17,008	21	17,681	19	18,238	8	18,982
Louisiana	4,354	8,583	4,937	9,588	5,855	10,817	6,998	11,737	7,991	12,224	8,537	13,176
Michigan	123	3,863	190	3,842	550	3,689	550	3,453	615	3,397	41	4,198
Mississippi	307	1,536	319	1,547	497	1,617	628	1,801	327	2,005	352	2,087
Missouri	0	91	0	89	0	97	0	130	0	120	0	119
Montana	51	3,421	110	3,641	311	3,587	512	3,516	585	3,261	407	3,210
Nebraska	0	302	0	547	31	932	19	1,602	87	1,616	26	1,320
Nevada	0	0	0	1	0	3	0	3	0	2	0	2
New Mexico	3,644	3,606	3,710	3,656	3,502	4,727	3,563	5,424	4,259	5,809	3,972	6,839
New York	0	23,000	0	22,500	0	22,300	0	21,300	0	19,200	0	19,765
North Dakota	179	73	353	88	444	92	458	313	543	395	503	640
Ohio	70	19,400	90	15,210	80	14,660	75	14,745	130	14,700	175	14,850
Oklahoma	2,120	60,956	2,860	64,551	3,180	71,430	2,773	73,019	2,264	75,623	2,771	76,981
Pennsylvania	0	80,500	0	80,000	0	78,500	0	76,500	0	69,700	0	68,050
South Dakota	0	1	0	2	0	3	0	3	0	3	1	3
Tennessee	0	29	0	44	0	25	0	40	0	35	0	31
Texas	45,976	94,884	47,032	100,712	47,669	108,811	48,513	117,473	48,098	125,861	47,897	131,781
Utah	3	66	1	81	2	68	23	87	129	210	307	241
Virginia	0	25	0	25	0	25	0	20	0	0	0	0
Washington	0	0	0	0	0	0	0	0	2	0	1	0
West Virginia	0	13,600	0	13,000	0	12,500	0	12,000	0	12,700	0	12,740
Wyoming	278	4,841	368	5,321	535	5,681	473	5,959	513	6,074	467	6,334
U.S. Total	59,465	442,394	62,156	454,652	65,364	472,318	67,257	487,517	68,527	495,016	68,123	506,392

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1959		1960		1961		1962		1963		1964	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	29	244	0	380	0	414	0	447	0	499	0	479
Alaska	5	0	18	0	45	0	50	2	48	7	37	17
Arizona	1	0	2	1	0	4	0	13	0	5	0	10
Arkansas	178	5,881	183	5,810	190	6,267	543	5,301	160	5,239	150	5,950
California	1,115	36,101	1,196	36,388	1,033	37,203	1,213	37,980	1,251	39,099	1,270	39,510
Colorado	382	1,701	127	1,892	115	1,864	110	1,865	72	1,888	58	1,832
Florida	0	11	0	11	0	11	0	11	0	12	0	16
Illinois	128	38,736	67	38,239	74	39,381	0	30,196	0	30,114	0	29,319
Indiana	169	5,303	86	5,381	84	5,792	0	5,887	0	5,937	0	5,949
Kansas	243	39,921	312	46,270	270	46,920	275	47,286	278	47,587	300	48,700
Kentucky	19	21,137	13	20,733	15	20,746	0	19,800	0	19,000	0	15,726
Louisiana	9,280	13,805	8,896	14,389	9,420	14,612	10,951	14,691	11,692	16,037	12,401	17,260
Michigan	59	4,332	850	3,704	931	3,413	832	3,5[illegible]8	915	3,188	915	3,660
Mississippi	383	2,236	277	2,347	289	2,408	525	2,035	554	2,139	342	2,238
Missouri	0	95	0	121	0	120	0	111	0	118	0	87
Montana	331	3,375	33	3,478	33	3,404	41	3,659	36	3,552	34	3,960
Nebraska	21	1,473	15	1,627	18	1,967	0	1,855	5	1,769	5	1,733
Nevada	0	2	0	2	0	2	0	2	0	4	0	5
New Mexico	4,530	7,657	5,323	7,261	4,880	8,857	5,324	8,909	4,861	9,003	4,814	9,828
New York	0	19,275	0	19,000	0	18,000	0	13,500	0	13,100	0	12,800
North Dakota	392	988	74	1,343	92	1,453	567	1,015	600	1,206	453	1,428
Ohio	160	14,768	150	14,560	145	14,305	150	14,350	80	14,525	50	13,683
Oklahoma	2,987	78,120	3,147	80,459	3,775	81,048	3,750	77,795	3,840	77,686	3,857	76,602
Pennsylvania	0	67,580	10	65,000	0	61,896	0	56,900	20	55,360	22	53,043
South Dakota	0	11	0	19	0	24	0	18	0	24	0	24
Tennessee	0	30	0	27	0	30	0	30	0	40	0	41
Texas	47,366	138,298	45,722	143,789	44,936	147,587	44,202	149,526	42,218	152,251	40,481	154,088
Utah	346	317	352	404	349	602	320	500	318	520	15	926
Virginia	0	0	0	8	0	8	0	5	0	6	0	6
Washington	1	0	1	0	1	0	0	0	0	0	0	0
West Virginia	0	12,885	0	12,950	0	12,350	0	12,800	0	13,000	0	13,200
Wyoming	489	6,629	413	7,117	408	7,417	400	9,000	455	7,459	450	7,481
U.S. Total	68,614	520,919	67,267	532,710	67,103	538,105	69,253	519,027	67,403	520,374	65,654	519,601

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1965		1966		1967		1968		1969		1970	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	530	0	520	4	529	5	542	7	467	8	468
Alaska	25	35	42	15	70	19	93	86	58	135	41	120
Arizona	6	4	6	4	(1)	(1)	0	(1)	0	0	(1)	(1)
Arkansas	212	5,730	104	5,453	197	6,237	83	5,896	106	6,012	100	6,100
California	1,204	40,323	1,176	40,516	1,026	40,597	1,428	40,103	1,390	39,505	1,350	37,718
Colorado	61	1,771	42	1,649	37	1,773	33	1,782	30	1,748	37	1,733
Florida	2	36	0	41	(1)	(1)	0	(1)	0	0	(1)	(1)
Illinois	0	29,012	20	28,550	0	27,874	0	27,242	0	26,737	0	26,298
Indiana	0	4,149	0	4,149	0	3,637	0	3,621	0	3,646	0	3,607
Kansas	300	46,200	300	40,622	400	45,925	400	44,755	350	44,390	350	44,315
Kentucky	0	15,600	0	16,000	500	13,500	609	13,000	532	13,220	502	14,000
Louisiana	12,982	17,921	12,338	18,546	12,435	18,511	11,018	19,015	10,756	18,861	9,064	19,214
Michigan	890	3,153	800	3,204	77	3,291	686	3,587	551	3,821	677	3,196
Mississippi	354	2,159	362	2,187	348	2,172	328	2,271	303	2,245	290	2,276
Missouri	0	100	0	142	(1)	(1)	0	(1)	0	0	(1)	(1)
Montana	46	3,677	11	3,582	38	3,724	14	3,252	25	3,460	3	3,159
Nebraska	5	1,614	0	1,493	4	1,457	3	1,404	2	1,369	6	1,299
Nevada	0	9	0	10	(1)	(1)	0	(1)	0	0	(1)	(1)
New Mexico	4,682	9,753	3,499	10,798	3,645	10,712	3,277	11,106	3,186	11,152	3,198	11,075
New York	0	11,700	100	12,200	100	12,000	0	11,500	0	9,500	0	5,000
North Dakota	524	1,439	315	1,718	250	1,513	224	1,503	495	1,155	229	1,506
Ohio	60	13,873	50	14,133	50	14,240	60	14,347	80	14,584	60	14,727
Oklahoma	3,800	76,200	4,000	77,477	4,000	76,971	4,000	76,999	4,000	76,947	4,000	74,212
Pennsylvania	18	52,713	75	50,570	50	45,376	50	35,950	50	33,950	70	30,555
South Dakota	0	29	0	29	(1)	(1)	0	(1)	0	0	(1)	(1)
Tennessee	0	42	0	34	(1)	(1)	0	(1)	0	0	(1)	(1)
Texas	39,052	155,618	36,160	155,281	33,060	155,761	31,525	152,452	28,934	149,837	26,199	146,014
Utah	9	852	10	861	15	981	15	881	15	867	23	884
Virginia	0	7	0	2	(1)	(1)	0	(1)	0	0	(1)	(1)
West Virginia	0	13,400	0	13,300	0	14,250	0	14,000	0	13,800	0	13,700
Wyoming	400	7,594	422	8,012	456	8,091	527	8,396	687	8,386	700	8,800
Other	0	0	0	0	3	263	0	263	0	289	21	273
U.S. Total	64,632	515,243	59,832	511,098	57,465	509,404	54,378	493,593	51,557	486,083	46,928	470,249

(1) Included in other

Source: World Oil Magazine

Section III
Table 19d

Producing Oil Wells by State and by Type
(as of December 31)

	1971		1972		1973		1974		1975		1976	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	14	524	27	499	44	510	35	384	36	530	40	593
Alaska	53	130	58	139	52	140	42	186	36	164	38	152
Arizona	0	29	1	22	1	22	0	28	0	28	0	27
Arkansas	60	7,086	69	7,168	96	6,328	123	6,993	125	6,947	140	7,072
California	1,300	39,298	421	39,865	496	42,847	453	39,777	370	40,569	496	44,287
Colorado	50	1,845	110	1,709	134	1,721	119	1,921	108	2,232	111	2,265
Florida	8	65	68	67	81	64	63	70	72	72	66	78
Illinois	0	25,369	0	24,736	0	24,307	0	23,718	0	23,360	0	23,509
Indiana	0	3,600	0	4,379	0	4,323	0	4,376	0	4,380	0	4,798
Kansas	325	41,960	325	40,730	319	42,181	276	41,480	250	41,695	200	42,050
Kentucky	557	14,100	560	14,056	100	14,316	0	14,129	0	14,231	0	13,970
Louisiana	7,534	18,216	7,388	19,208	6,203	21,666	6,545	21,428	5,979	21,755	6,128	20,272
Michigan	650	3,200	668	3,129	659	3,082	682	3,132	548	3,107	608	3,162
Mississippi	300	2,255	275	2,298	202	2,108	180	2,074	160	2,077	149	2,063
Missouri	0	139	0	138	0	135	0	137	0	157	0	145
Montana	23	3,707	19	3,196	3	3,533	7	3,021	7	3,143	12	3,298
Nebraska	4	1,190	4	1,176	0	1,118	0	1,109	0	1,127	0	1,292
Nevada	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	2,388	10,997	2,386	11,048	2,300	11,138	2,143	11,139	2,255	11,395	2,313	11,533
New York	0	5,860	0	5,500	0	5,400	0	5,475	0	4,975	0	5,000
North Dakota	263	1,453	225	1,340	224	1,237	243	1,245	236	1,248	269	1,302
Ohio	50	14,581	295	14,491	304	14,847	302	14,847	288	14,877	310	15,143
Oklahoma	4,000	71,549	4,000	69,807	3,943	69,082	3,879	67,969	4,089	67,568	4,131	68,257
Pennsylvania	70	29,731	80	26,949	75	32,521	75	30,825	50	32,200	65	32,000
South Dakota	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Tennessee	12	59	16	40	6	61	31	56	55	94	75	122
Texas	24,305	149,902	22,680	148,689	19,998	139,314	20,063	140,011	18,584	152,462	16,997	143,678
Utah	46	828	87	812	82	1,362	230	989	121	935	100	1,088
Virginia	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Washington	0	(1)	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
West Virginia	0	13,500	0	13,530	0	13,600	0	13,650	0	13,750	0	13,800
Wyoming	650	8,600	600	8,350	535	7,107	606	8,050	662	8,788	720	9,307
Other	0	36	0	72	10	31	9	28	9	28	1	17
U.S. Total	42,662	469,809	40,362	463,143	35,867	464,101	36,105	458,247	34,040	473,900	32,969	470,299

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(1) Included in other

Source: World Oil Magazine

Section III
Table 19e

Producing Oil Wells by State and by Type
(as of December 31)

	1977		1978		1979		1980		1981		1982	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	40	597	55	575	57	457	57	612	103	589	122	597
Alaska	135	156	188	178	240	160	412	230	296	404	330	430
Arizona	0	28	0	31	0	35	0	32	0	35	0	36
Arkansas	155	7,348	197	7,356	202	7,496	140	7,964	156	8,093	173	8,456
California	481	42,973	517	44,482	1,635	43,039	1,667	43,924	1,592	45,770	1,470	45,761
Colorado	213	2,832	226	3,001	183	3,219	188	3,302	151	2,747	218	2,895
Florida	144	0	50	65	43	72	40	80	42	75	50	73
Illinois	0	23,828	0	23,869	0	24,067	0	24,745	0	26,100	0	27,600
Indiana	0	4,891	0	5,076	0	5,296	0	5,452	0	5,715	0	6,047
Kansas	200	42,250	204	43,054	223	47,156	60	47,397	42	42,360	46	46,143
Kentucky	0	14,046	0	14,149	0	14,097	0	14,517	0	14,585	0	15,109
Louisiana	2,228	21,653	2,244	22,256	4,251	20,516	4,226	21,788	3,871	21,449	2,001	20,379
Michigan	603	3,300	547	3,343	547	3,343	585	3,524	631	3,786	636	3,900
Mississippi	152	2,108	88	2,166	91	2,465	120	2,511	144	3,010	132	2,508
Missouri	0	161	0	161	0	188	20	238	0	421	0	499
Montana	70	3,284	328	2,947	375	3,198	325	3,303	375	3,593	350	3,961
Nebraska	0	1,369	0	1,455	0	1,535	4	1,675	0	1,870	0	2,006
Nevada	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
New Mexico	2,405	11,860	2,144	12,254	2,723	12,322	2,565	13,181	2,986	13,303	3,068	13,458
New York	0	4,800	0	4,900	0	4,800	0	5,000	0	5,300	0	5,320
North Dakota	297	1,341	358	1,374	404	1,504	554	1,736	622	1,948	800	2,070
Ohio	347	17,016	362	17,735	384	18,793	409	20,042	447	21,994	470	24,282
Oklahoma	4,203	69,450	4,247	70,623	4,345	72,160	4,332	74,131	4,563	78,076	5,046	86,699
Pennsylvania	50	28,755	50	28,350	56	27,712	56	27,869	52	26,086	52	25,233
South Dakota	(1)	(1)	0	(1)	3	85	3	115	0	120	0	130
Tennessee	115	157	119	160	144	194	106	335	117	372	120	530
Texas	16,168	147,647	16,109	149,708	16,665	151,458	16,751	157,940	17,351	163,276	16,170	171,456
U.S. Federal Waters	2,702	829	2,624	805	915	2,344	917	2,349	3,267	1,268	3,589	1,396
Utah	369	494	552	739	576	770	436	1,042	419	1,124	396	1,187
Virginia	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
Washington	(1)	(1)	0	(1)	0	(1)	0	(1)	0	(1)	0	(1)
West Virginia	0	13,900	0	14,100	0	14,225	0	14,425	0	14,700	0	14,900
Wyoming	725	9,378	718	9,293	724	9,335	736	9,491	833	10,741	825	10,967
Other	13	74	0	106	0	28	0	31	0	39	1	49
U.S. Total	31,815	476,525	31,927	484,311	34,786	492,069	34,529	508,981	38,060	518,949	36,065	544,077

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(1) Included in other

Source: World Oil Magazine

Producing Oil Wells by State and by Type
(as of December 31)

	1983		1984	
	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	102	639	50	709
Alaska	406	266	370	270
Arizona	0	34	0	31
Arkansas	168	8,202	189	9,301
California	1,482	45,715	1,423	47,118
Colorado	304	4,287	571	4,789
Florida	62	75	57	81
Illinois	0	28,967	0	28,920
Indiana	0	6,465	0	6,792
Kansas	53	49,295	49	49,149
Kentucky	0	15,562	0	19,980
Louisiana	2,110	21,266	2,168	22,340
Michigan	663	4,250	749	4,132
Mississippi	135	2,592	259	2,303
Missouri	0	552	0	557
Montana	400	4,275	424	4,292
Nebraska	0	2,100	0	2,095
Nevada	0	(1)	(1)	(1)
New Mexico	3,161	14,248	3,030	14,843
New York	7	5,425	28	4,650
North Dakota	717	3,017	830	2,574
Ohio	523	25,764	535	26,343
Oklahoma	4,794	91,074	4,980	94,620
Pennsylvania	47	24,610	0	20,739
South Dakota	0	140	0	138
Tennessee	126	567	139	636
Texas	15,182	180,413	15,216	188,448
U.S. Federal Waters	1,370	3,340	3,590	514
Utah	388	1,246	360	1,439
Virginia	0	(1)	(1)	(1)
Washington	0	(1)	(1)	(1)
West Virginia	0	15,300	0	15,475
Wyoming	794	10,555	809	10,752
Other	0	55	5	63
U.S. Total	32,994	570,296	36,104	584,093

(1) Included in other

Source: World Oil Magazine

Section III
Table 20

PRODUCING OIL WELLS IN FREE WORLD
(As of July 1)

COUNTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978
Australia	386	402	398	394	373	361	378	359	375
Brunei-Malaysia	592	537	558	126	519	504	574	648	712
India	200	1,545	1,545	1,500	2,500	1,545	1,548	1,600	1,600
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018	3,162	3,421	3,644
Japan	1,725	2,341	1,078	1,084	1,044	1,009	464	448	542
TOTAL ASIA-PACIFIC	5,200	7,046	6,692	6,479	6,861	7,156	6,645	7,006	7,407
Austria	1,268	1,298	1,270	1,250	1,271	1,291	1,222	1,219	1,250
Netherlands	369	351	319	319	347	368	392	393	416
Norway	—	1	4	4	6	24	29	36	50
United Kingdom	60	55	56	63	57	77	90	135	109
West Germany	3,065	3,078	2,833	2,782	2,699	2,699	2,827	2,933	2,933
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981	6,109	6,266	5,208
Abu Dhabi	94	98	115	142	160	216	209	232	240
Iran	266	280	313	350	369	425	428	518	551
Iraq	113	122	132	133	156	156	170	200	250
Kuwait	741	692	692	692	692	692	596	586	586
Neutral Zone	450	480	440	362	449	449	476	459	455
Qatar	69	80	84	92	81	88	77	77	95
Saudi Arabia	423	425	535	627	670	711	701	754	875
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919	3,007	4,161	4,307
Algeria	775	497	524	574	826	984	826	801	989
Egypt	332	204	245	261	437	319	376	401	430
Gabon	100	101	114	122	137	184	212	240	211
Libya	1,083	995	763	895	979	851	877	797	817
Nigeria	364	570	774	898	1,088	1,052	1,259	1,374	1,322
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699	3,804	3,956	4,160
Mexico	3,127	3,908	3,412	4,345	3,301	3,285	3,382	3,419	4,145
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718	10,720	1,932	11,909
United States	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752
Canada	23,675	22,779	20,911	22,996	21,202	18,573	25,055	26,112	25,800
TOTAL WESTERN HEMISPHERE	582,649	569,172	558,947	551,543	548,894	546,866	574,224	555,034	575,695
TOTAL FREE WORLD	598,852	586,949	576,226	570,094	568,806	567,621	593,789	576,423	596,777

Source: United States, U.S. Department of Energy
Rest of World, Oil and Gas Journal

PRODUCING OIL WELLS IN FREE WORLD
(As of July 1)

COUNTRY	1979	1980	1981	1982	1983	1984
Australia	370	403	399	435	509	545
Brunei-Malaysia	819	808	788	843	965	1,017
India	1,600	1,600	1,600	1,560	1,560	1,560
Indonesia	3,823	3,700	4,077	4,341	4,840	4,840
Japan	507	388	382	397	370	348
TOTAL ASIA-PACIFIC	7,684	7,465	7,843	8,184	8,885	8,992
Austria	1,254	1,120	1,164	1,229	1,240	1,243
Netherlands	473	480	516	533	623	633
Norway	50	100	117	131	144	171
United Kingdom	240	290	361	379	387	535
West Germany	2,945	2,957	3,004	3,077	3,142	3,136
TOTAL WESTERN EUROPE	5,421	5,401	5,708	5,978	6,228	6,922
Abu Dhabi	250	341	277	352	222	254
Iran	547	547	530	530	530	530
Iraq	250	250	280	280	290	290
Kuwait	590	590	546	530	530	530
Neutral Zone	423	412	450	445	450	464
Qatar	95	124	128	125	125	174
Saudi Arabia	725	733	782	555	555	555
TOTAL MIDDLE EAST	4,381	4,193	4,304	4,639	4,643	4,582
Algeria	970	1,000	1,050	1,085	1,090	1,090
Egypt	432	484	450	411	500	617
Gabon	218	242	250	266	270	270
Libya	896	886	889	891	905	905
Nigeria	1,457	1,451	1,491	1,312	1,296	1,177
TOTAL AFRICA	4,372	4,522	4,672	4,565	4,860	4,937
Mexico	4,200	3,384	3,593	3,605	3,640	NA
Venezuela	12,486	5,042	13,610	14,029	11,604	13,512
United States	531,395	547,717	557,009	580,142	636,900	615,500
Canada	18,323	20,721	33,404	33,907	36,388	39,146
TOTAL WESTERN HEMISPHERE	583,748	594,741	625,056	650,162	708,342	690,169
TOTAL FREE WORLD	608,606	616,322	647,583	673,528	732,958	715,602

Source: United States, 1976-1980: U.S. Department of Energy
1981: World Oil Magazine
Rest of World, Oil and Gas Journal
1983-1984: Oil and Gas Journal

BASIC PETROLEUM DATA BOOK

SECTION IV. PRODUCTION

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Section IV
Table 1

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Total Free World	Communist Nations	Total World
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	3,022,139
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	3,433,234
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	3,404,142
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	3,803,027
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	4,282,730
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	4,531,114
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	4,798,055
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	5,016,591
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	5,625,659
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	6,124,676
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,102	166,631	5,617,319	821,125	6,438,444
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,713	169,824	5,676,265	931,485	6,607,750
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,943	193,308	6,074,425	1,058,813	7,133,238
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	7,674,460
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	8,186,213
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	8,881,858
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	9,538,346
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	10,309,644
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	11,062,515
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	12,021,786
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	12,914,340
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	14,146,318
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	15,222,511
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	16,718,708
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	17,662,793
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	18,600,745
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	20,367,981
1974	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	20,537,727

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(1) Includes lease condensate

Source: U.S. Department of the Interior, Bureau of Mines–1947–1958: Minerals Yearbook, Annual
1959–1972: International Petroleum Annual
1973–1974: World Crude Oil Production Annual 1974, July 17, 1975

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia-Pacific	Total Free World	Communist Nations	Total World
1975	3,056,779	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,174,305	4,328,030	19,502,335
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	21,191,540
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	21,900,695
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	22,158,251
1979	3,121,310	546,040	1,919,535	828,550	7,868,670	2,423,600	1,051,200	17,758,905	5,118,030	22,876,935
1980	3,146,365	521,184	2,035,692	890,965	6,735,498	2,226,378	1,000,278	16,556,360	5,204,520	21,760,880
1981	3,128,624	469,025	2,182,700	955,570	5,749,480	1,672,065	1,027,110	15,184,574	5,192,125	20,376,699
1982	3,156,715	463,550	2,256,065	1,078,210	4,622,360	1,629,725	955,570	14,162,195	5,184,460	19,346,655
1983	3,170,999	494,940	2,203,505	1,236,620	4,215,750	1,609,650	1,024,555	13,956,019	5,241,400	19,197,419
1984	3,249,696	516,426	2,315,682	1,331,874	4,128,114	1,713,978	1,164,978	14,420,748	5,332,620	19,753,368

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(1) Includes lease condensate

Source: 1975-1978: U.S. Department of Energy, Energy Information Administration, World Crude Oil Production Annual
1979-1984: U.S.--U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annual
Rest of World--Central Intelligence Agency, International Energy Statistical Review

Section IV
Table 2

WORLD CRUDE OIL PRODUCTION—TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1974	Nation	1975	Nation	1976
1. U.S.S.R.(1)	3,373,650	1. U.S.S.R.(1)	3,608,850	1. U.S.S.R.(1)	3,822,000
2. United States(1)	3,202,585	2. United States(1)	3,052,048	2. Saudi Arabia(2)	3,053,887
3. Saudi Arabia(2)	2,996,543	3. Saudi Arabia(2)	2,491,834	3. United States(1)	2,976,180
4. Iran	2,197,901	4. Iran	1,952,650	4. Iran	2,168,237
5. Venezuela	1,086,332	5. Venezuela	856,364	5. Venezuela	839,737
6. Kuwait(2)	830,580	6. Iraq	825,521	6. Iraq	834,810
7. Nigeria	823,347	7. Kuwait(2)	670,918	7. Nigeria	756,064
8. Iraq	720,729	8. Nigeria	651,890	8. Libya	704,011
9. Canada	616,532	9. United Arab Emirates	618,310	9. Kuwait(2)	700,000
10. United Arab Emirates	616,485	10. People's Republic of China	571,590	10. United Arab Emirates	692,106
11. Libya	555,291	11. Libya	551,150	11. People's Republic of China	645,897
12. Indonesia	501,838	12. Canada	520,666	12. Indonesia	550,319
13. People's Republic of China	474,500	13. Indonesia	477,055	13. Canada	488,680
14. Algeria	368,139	14. Algeria	350,753	14. Algeria	383,816
15. Mexico(1)	238,271	15. Mexico	294,254	15. Mexico	327,285
16. Qatar	189,348	16. Qatar	159,482	16. Qatar	178,120
17. Argentina	151,110	17. Australia	149,873	17. Australia	152,522
18. Australia	140,396	18. Argentina	144,364	18. Argentina	145,561
19. Romania	107,964	19. Oman	124,600	19. Oman	133,795
20. Oman	106,046	20. Romania	108,739	20. Egypt	120,180
TOTAL FREE WORLD	16,542,571	TOTAL FREE WORLD	15,169,574	TOTAL FREE WORLD	16,575,174
TOTAL WORLD	20,537,727	TOTAL WORLD	19,497,604	TOTAL WORLD	21,191,540

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: U.S. Energy Information Administration, World Crude Oil Production Annual

Section IV
Table 2a

WORLD CRUDE OIL PRODUCTION—TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1977	Nation	1978	Nation	1979
1. U.S.S.R.(1)	3,991,050	1. U.S.S.R.	4,093,475	1. U.S.S.R.	4,187,280
2. Saudi Arabia(2)	3,290,000	2. United States(1)	3,175,927	2. Saudi Arabia	3,376,615
3. United States(1)	3,009,265	3. Saudi Arabia(2)	3,113,470	3. United States(1)	3,114,545
4. Iran	2,080,051	4. Iran	1,900,555	4. Iraq	1,269,105
5. Iraq	909,945	5. Iraq	959,585	5. Iran	1,156,320
6. Venezuela	816,818	6. Venezuela	790,418	6. Venezuela	859,940
7. Nigeria	765,473	7. People's Republic of China	731,825	7. Nigeria	840,230
8. Libya	753,178	8. Libya	727,445	8. Kuwait	807,745
9. United Arab Emirates	729,506	9. Nigeria	697,150	9. People's Republic of China	774,530
10. People's Republic of China	653,350	10. Kuwait(2)	680,725	10. Libya	763,580
11. Kuwait(2)	650,795	11. United Arab Emirates	668,680	11. United Arab Emirates	668,315
12. Indonesia	615,123	12. Indonesia	597,505	12. Indonesia	580,715
13. Canada	482,021	13. Canada(1)	483,260	13. United Kingdom	572,320
14. Algeria	409,864	14. Algeria(1)	447,125	14. Canada(1)	546,040
15. Mexico	358,090	15. Mexico(1)	440,555	15. Mexico(1)	533,265
16. United Kingdom	271,653	16. United Kingdom	394,930	16. Algeria(1)	415,005
17. Qatar	162,316	17. Qatar	176,537	17. Neutral Zone	207,320
18. Argentina	157,248	18. Neutral Zone	170,090	18. Egypt	191,625
19. Australia	157,155	19. Egypt	169,360	19. Brunei-Malaysia	187,975
20. Egypt	150,925	20. Argentina	165,195	20. Qatar	185,420
TOTAL FREE WORLD	17,108,078	TOTAL FREE WORLD	17,195,001	TOTAL FREE WORLD	17,825,515
TOTAL WORLD	21,900,695	TOTAL WORLD	22,158,251	TOTAL WORLD	22,970,545

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: 1977-1978—U.S. Energy Information Administration, World Crude Oil Production Annual.
1979—Central Intelligence Agency, International Energy Statistical Review.

Section IV
Table 2b

WORLD CRUDE OIL PRODUCTION - TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1980	Nation	1981	Nation	1982
1. U.S.S.R.	4,282,200	1. U.S.S.R.	4,303,350	1. U.S.S.R.	4,388,760
2. Saudi Arabia(2)	3,524,946	2. Saudi Arabia(2)	3,513,125	2. United States(1)	3,156,715
3. United States(1)	3,146,502	3. United States(1)	3,128,780	3. Saudi Arabia(2)	2,304,975
4. Iraq	920,124	4. Mexico(1)	843,880	4. Mexico	1,086,970
5. Venezuela	792,390	5. Venezuela	769,420	5. Iran	808,110
6. People's Republic of China	775,188	6. People's Republic of China	738,760	6. United Kingdom	772,705
7. Nigeria	753,228	7. United Kingdom	661,015	7. China	740,585
8. Mexico(1)	708,942	8. Indonesia	585,640	8. Venezuela	690,215
9. Libya	669,780	9. United Arab Emirates	547,500	9. Indonesia	488,735
10. United Arab Emirates	622,932	10. Nigeria	527,425	10. Nigeria	472,675
11. Iran	680,292	11. Iran	504,065	11. Canada	452,965
12. United Kingdom	592,554	12. Canada(1)	469,025	12. United Arab Emirates	443,110
13. Indonesia	576,816	13. Libya	415,005	13. Libya	422,670
14. Canada(1)	521,184	14. Iraq	362,445	14. Iraq	354,780
15. Kuwait(2)	508,374	15. Kuwait(2)	345,655	15. Algeria	259,150
16. Algeria(1)	373,320	16. Algeria	293,095	16. Kuwait(2)	244,915
17. Egypt	217,770	17. Egypt	218,270	17. Egypt	242,725
18. Neutral Zone	199,104	18. Norway	182,865	18. Norway	189,070
19. Norway	193,248	19. Argentina	181,040	19. Argentina	176,660
20. Brunei-Malaysia	189,588	20. Brunei-Malaysia	156,585	20. Brunei-Malaysia	167,900
TOTAL FREE WORLD	16,559,304	TOTAL FREE WORLD	15,181,445	TOTAL FREE WORLD	14,116,160
TOTAL WORLD	21,765,654	TOTAL WORLD	20,373,570	TOTAL WORLD	19,395,155

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(1) Includes lease condensate.
(2) Excluding Neutral Zone production.

Source: Central Intelligence Agency, International Energy Statistical Review

WORLD CRUDE OIL PRODUCTION - TWENTY LEADING NATIONS
(Thousands of barrels)

Nation	1983	Nation	1984
1. U.S.S.R.	4,363,940	1. U.S.S.R.	4,344,420
2. United States(1)	3,170,999	2. United States(1)	3,249,696
3. Saudi Arabia(2)	1,776,455	3. Saudi Arabia(2)	1,626,504
4. Mexico	979,660	4. Mexico	1,005,036
5. Iran	909,580	5. United Kingdom	927,810
6. United Kingdom	839,135	6. China	834,480
7. China	769,005	7. Iran	800,442
8. Venezuela	653,350	8. Venezuela	663,558
9. Canada	529,250	9. Indonesia	536,556
10. Indonesia	505,525	10. Canada	516,426
11. Nigeria	452,965	11. Nigeria	509,838
12. United Arab Emirates	408,070	12. Iraq	440,298
13. Libya	392,740	13. United Arab Emirates	401,502
14. Iraq	336,530	14. Libya	392,718
15. Kuwait(2)	321,565	15. Kuwait(2)	333,792
16. Algeria	255,135	16. Egypt	302,682
17. Egypt	251,485	17. Norway	256,200
18. Norway	224,110	18. Algeria	233,508
19. Brunei-Malaysia	190,895	19. India	173,248
20. Argentina	174,835	20. Australia	180,072
TOTAL FREE WORLD	13,988,260	TOTAL FREE WORLD	14,420,748
TOTAL WORLD	19,274,555	FREE WORLD	19,753,368

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(1) Includes lease condensate
(2) Excludes Neutral Zone production

Source: U.S. - Energy Information Administration, Petroleum Supply Annuals
Rest of World - Central Intelligence Agency, International Energy Statistical Review

Section IV
Table 3

U.S. STRIPPER WELLS AND STRIPPER WELL PRODUCTION

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(1) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	392,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.9
1965	398,299	589,016	4.0	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.6	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392,191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7
1981	409,539	426,502	2.9	3,128,624	13.1
1982	416,493	441,951	2.9	3,156,715	14.0
1983	441,501	462,013	2.9	3,159,440	14.6

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(1) Includes lease condensate

Source: National Stripper Well Survey
Total Crude Oil Production, Department of Energy

Section IV
Table 4

U.S. CRUDE OIL PRODUCTION(1) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524	7,329
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	187	559
Arizona	-	-	-	-	-	-	-	-	-	-	-	12	25	73
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329	30,117
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946	305,352
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440	47,469
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424	369
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,083	80,275	76,727	77,341
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554	12,054
Kansas	105,132	110,908	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543	113,453
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272	21,147
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666	400,832
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439	15,899
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620	51,673
Missouri	55	31	49	32	24	21	39	96	72	65	65	84	75	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857	30,240
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881	23,825
Nevada	-	-	-	-	-	-	-	33	64	64	44	40	32	27
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,993	94,759	98,515	105,692	107,380
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970	1,813
North Dakota	-	-	-	-	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824	21,992
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,880	4,353	4,785	5,478	6,260	5,978	5,405
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,851	202,817	215,862	214,661	200,699	198,090	192,913
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,170	6,009
South Dakota	-	-	-	-	-	-	-	37	30	32	54	58	151	281
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6	20
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978	927,479
Utah	-	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959	37,594
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6	2
Washington	-	-	-	-	-	-	-	-	-	-	5	4	1	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184	2,300
Wyoming	44,772	55,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050	133,910
Total	1,856,987	2,020,185	1,841,940	1,973,574	2,247,711	2,289,836	2,357,082	2,314,988	2,484,428	2,617,283	2,616,901	2,448,987	2,574,590	2,574,933
Daily Average	5,088	5,520	5,046	5,407	6,158	6,256	6,458	6,342	6,807	7,151	7,170	6,710	7,054	7,035

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Annual Petroleum Statements

Section IV
Table 4a

U.S. CRUDE OIL PRODUCTION(1) BY STATES
(Thousand of Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934	11,677
Alaska	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893	72,323
Arizona	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993	804
Arkansas	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519	18,016
California	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022	336,075
Colorado	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015	36,590
Florida	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897	32,695
Illinois	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874	30,669
Indiana	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130	5,312
Kansas	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744	66,227
Kentucky	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702	8,687
Louisiana	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827	831,524
Michigan	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990	14,614
Mississippi	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100	56,102
Missouri	72	55	53	65	73	97	75	65	67	66	66	60	60
Montana	30,906	31,648	30,870	30,647	32,778	35,380	34,959	48,460	43,954	37,879	34,599	33,904	34,620
Nebraska	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106	11,451	10,062	8,705	7,240
Nevada	154	141	118	255	209	307	279	271	223	149	113	100	96
New Mexico	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525	100,986
New York	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256	1,194	1,126	1,018	967
North Dakota	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624	20,235
Ohio	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358	8,796
Oklahoma	193,081	202,732	201,962	202,524	203,441	224,839	230,749	221,623	224,729	223,574	213,313	207,633	191,204
Pennsylvania	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441	3,282
South Dakota	233	169	215	247	219	239	211	187	158	160	233	219	275
Tennessee	17	14	16	10	11	7	7	6	32	309	398	198	201
Texas	939,191	943,328	977,835	989,525	1,057,706	1,056,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,685	1,294,671
Utah	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570	32,656
Virginia	2	3	3	6	4	1	3	3	1	1	1	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677	2,385
Wyoming	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011	141,914
Total	2,621,758	2,676,189	2,752,723	2,786,822	2,848,514	3,027,763	3,215,742	3,329,042	3,371,751	3,517,450	3,453,914	3,455,368	3,360,903
Daily Average	7,183	7,332	7,542	7,614	7,804	8,295	8,810	9,096	9,238	9,637	9,463	9,441	9,208

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Annual Petroleum Statements

U.S. CRUDE OIL PRODUCTION(1) BY STATES
(Thousand of Barrels)

STATE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	13,323	13,477	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746	19,804
Alaska	70,603	69,834	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527	630,401
Arizona	740	635	519	427	418	472	406	357	335	237	215
Arkansas	16,527	16,133	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849	18,730
California	323,003	322,199	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688	412,020
Colorado	37,508	38,089	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050	28,845
Florida	36,351	41,877	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476	14,462
Illinois	27,553	26,067	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200	28,868
Indiana	4,919	4,632	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321	5,526
Kansas	61,691	59,106	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594	75,729
Kentucky	7,837	7,556	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886	7,777
Louisiana	737,324	650,840	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569	515,268
Michigan	18,021	24,420	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736	30,554
Mississippi	50,779	46,614	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455	32,776
Missouri	56	57	61	60	54	91	130	226	202	269	285
Montana	34,554	32,844	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225	29,761
Nebraska	6,611	6,120	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380	6,452
Nevada	129	115	143	661	1,156	1,235	880	700	613	810	1,907
New Mexico	98,695	95,063	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169	79,336
New York	896	875	857	824	852	855	824	841	834	831	840
North Dakota	19,697	20,452	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690	52,652
Ohio	9,088	9,578	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971	15,271
Oklahoma	177,785	163,123	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604	168,385
Pennsylvania	3,478	3,264	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282	4,284
South Dakota	494	472	447	632	869	846	765	973	1,158	1,172	1,340
Tennessee	769	682	598	820	593	614	743	918	1,132	1,056	920
Texas	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676	904,774
Utah	39,363	42,301	34,304	33,113	31,368	27,728	24,978	25,860	22,440	29,534	34,689
Virginia	3	3	3	2	2	4	10	13	49	65	32
Washington	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,665	2,479	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628	3,524
Wyoming	139,997	135,943	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303	124,269
Total	3,202,585	3,056,779	2,976,180	3,009,265	3,178,216	3,121,310	3,146,365	3,128,624	3,156,715	3,170,999	3,249,696
Daily Average	8,774	8,374	8,132	8,245	8,707	8,552	8,597	8,572	8,649	8,688	8,879

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(1) Includes Lease Condensate

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1984: U.S. Energy Information Administration, Petroleum Supply Annuals.

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
*Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	55.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	170.8	138.9
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	7.1	6.8	6.6	6.2	6.0	6.0	5.7	6.1	7.5	7.4	6.7	6.9	6.6	6.6
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	8.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7
New York	.6	.6	.5	.5	.5	.5	.5	.4	.4	.4	.4	.2	.3	.3
North Dakota	-	-	-	-	-	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3
Ohio	.4	.5	.5	.5	.5	.5	.6	.7	.8	.9	1.0	1.2	1.0	.9
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9
Pennsylvania	.4	.4	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.2	.2
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	21.1	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3
Utah	-	-	-	-	-	-	-	-	-	-	75.7	182.7	180.1	137.6
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	.4	.5	.5	.5	.5	.5	.6	.6	.5	.5	.5	.5	.5	.5
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	42.9	45.4	42.0	34.1	12.0
Total	12.0	12.8	11.4	11.8	13.1	13.0	13.1	12.6	13.2	13.3	12.8	11.7	12.2	12.0

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	47.6	47.2	52.8	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5
Alaska	559.2	573.6	555.2	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4
Arizona	-	21.4	28.7	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5
Arkansas	12.6	12.4	12.6	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3
California	21.6	21.9	20.7	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4
Colorado	63.4	56.3	50.7	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2
Florida	-	104.4	110.5	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8
Illinois	6.6	6.9	6.8	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1
Indiana	5.8	5.8	5.6	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1
Kansas	7.6	7.0	6.4	6.2	6.1	6.1	5.8	5.6	5.4	5.3	5.0	4.8	4.4	4.1
Kentucky	2.5	2.5	2.9	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5
Louisiana	47.1	51.1	52.2	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3
Michigan	12.0	10.9	10.3	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4
Mississippi	50.7	56.8	61.3	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0
Missouri	-	1.4	1.4	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1
Montana	24.0	24.7	23.1	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8
Nebraska	38.9	37.6	34.3	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2
Nevada	-	96.6	80.8	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1
New Mexico	20.8	19.1	18.3	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8
New York	.2	.3	.3	.4	.4	.4	1.1	.9	.7	.6	.5	.5	.5	.5
North Dakota	41.4	39.7	37.9	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3
Ohio	.9	.9	1.1	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6
Oklahoma	6.7	6.9	6.8	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7
Pennsylvania	.2	.2	.2	.3	.3	.2	.3	.3	.3	.3	.3	.3	.3	.3
South Dakota	-	24.4	27.4	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7
Tennessee	-	1.1	1.1	.7	.8	.6	.6	.5	2.6	18.6	15.9	7.2	7.9	19.1
Texas	13.2	13.1	13.5	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7
Utah	114.0	103.3	108.6	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4
Virginia	-	1.6	1.5	2.3	1.6	.7	2.7	1.8	.5	.5	.9	-	-	5.5
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	.6	.7	.7	.7	.7	.8	.7	.7	.7	.7	.7	.6	.5	.5
Wyoming	50.6	48.1	52.1	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1
Other	13.4	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	12.1	12.3	12.7	12.9	13.3	14.2	15.3	16.2	16.9	18.0	18.1	18.4	18.3	17.6

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(1) Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1975	1976	1977	1978	1979	1980	1981
Alabama	62.1	64.8	79.1	85.0	80.3	90.1	81.9
Alaska	947.2	897.5	1,935.6	3,805.3	3,765.9	3,853.4	2,298.8
Arizona	65.7	51.6	41.8	36.4	37.0	33.6	27.9
Arkansas	6.1	6.7	7.2	7.1	6.5	6.1	6.1
California	21.7	21.3	22.3	21.9	22.1	21.9	22.4
Colorado	45.1	40.4	36.9	32.1	26.4	23.5	28.6
Florida	822.4	849.5	903.1	1,037.7	1,143.6	993.0	814.3
Illinois	3.0	3.1	3.0	2.7	2.5	2.5	2.5
Indiana	2.8	2.6	2.9	2.5	2.4	2.5	2.3
Kansas	3.9	3.8	3.7	3.6	3.6	3.6	4.3
Kentucky	1.5	1.5	1.3	1.1	1.1	1.1	1.2
Louisiana	64.0	61.4	61.5	60.3	54.5	50.5	48.6
Michigan	17.0	22.4	23.5	24.4	24.6	21.0	20.3
Mississippi	56.9	56.6	47.0	40.0	32.9	26.3	29.7
Missouri	1.0	1.0	0.9	0.9	1.2	1.4	1.5
Montana	28.3	27.4	27.0	24.8	23.2	22.2	21.3
Nebraska	14.5	13.6	12.2	11.3	11.0	10.5	9.8
Nevada	42.0	43.4	120.7	186.3	188.0	120.2	NA
New Mexico	19.3	18.2	16.9	14.4	11.2	11.2	12.0
New York	.5	.5	0.5	0.9	0.5	0.4	0.4
North Dakota	32.2	33.3	40.2	34.7	34.4	39.6	48.4
Ohio	1.6	1.6	1.7	1.7	1.7	1.7	1.7
Oklahoma	6.2	6.1	5.9	5.5	5.2	5.2	5.1
Pennsylvania	.3	.3	0.3	0.3	0.3	0.3	0.4
South Dakota	37.5	30.2	30.9	30.9	25.8	21.9	22.2
Tennessee	11.5	8.4	9.0	5.5	5.1	5.2	5.1
Texas	20.9	20.2	19.2	17.8	16.6	10.5	14.3
Utah	96.6	74.7	68.6	62.8	53.3	41.7	45.9
Virginia	1.6	1.2	1.0	1.2	1.8	3.6	NA
Washington	-	-	-	-	-	-	-
West Virginia	.5	.5	0.5	0.5	0.5	0.4	0.6
Wyoming	41.1	39.6	37.1	35.3	33.9	29.0	30.9
Other	-	-	-	-	-	-	-
Total	16.8	16.3	16.4	17.0	16.3	15.9	15.4

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(1) Includes Lease Condensate

Source: Department of Energy, Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annual 1981-Calculated by API, based on production from D.O.E. and producing wells from World Oil Magazine

BASIC PETROLEUM DATA BOOK

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Section V
Table 1

AVERAGE HOURLY EARNINGS–TOTAL MINING AND MANUFACTURING VS. PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING
(Annual Average)

		Petroleum and Natural Gas Extraction				
Year	Total Mining	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufac-turing	Petroleum Refining
1947	$1.47	N.A.	$1.40	N.A.	$1.22	$1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	$2.39	2.54	$2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94
1981	10.06	9.49	10.81	9.11	7.98	12.17
1982	10.82	10.32	11.94	9.78	8.50	13.30
1983	11.30	10.69	12.38	9.97	8.84	14.33
1984	11.58	10.66	12.78	9.89	9.17	14.57

Source: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 2

NUMBER OF EMPLOYEES
PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING
(Annual Average in Thousands)

	Petroleum and Natural Gas Extraction		
Year	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining
1947	164.0	N.A.	189.3
1948	173.6	N.A.	196.6
1949	173.1	N.A.	191.6
1950	166.8	N.A.	185.4
1951	169.1	N.A.	198.6
1952	177.2	N.A.	201.6
1953	181.3	N.A.	206.3
1954	184.7	N.A.	203.6
1955	189.0	N.A.	201.3
1956	192.3	N.A.	200.8
1957	194.5	N.A.	198.9
1958	192.4	135.0	190.4
1959	185.4	144.2	181.4
1960	178.2	131.1	177.2
1961	171.3	131.8	168.4
1962	167.6	130.4	160.5
1963	163.8	125.4	153.7
1964	160.4	130.7	149.6
1965	156.6	130.5	148.1
1966	152.5	129.2	148.2
1967	149.7	126.2	147.9
1968	148.1	127.5	150.1
1969	145.8	134.1	144.7
1970	144.2	125.9	153.7
1971	142.5	121.7	152.7
1972	142.7	125.5	152.3
1973	142.1	135.6	149.9
1974	148.5	156.0	155.4
1975	159.5	176.2	154.2
1976	165.0	195.3	157.1
1977	174.8	229.7	160.3
1978	178.1	239.0	163.0
1979	201.2	275.1	168.5
1980	218.3	329.1	154.2
1981	256.6	400.6	169.6
1982	288.6	413.0	169.0
1983	280.4	359.4	158.6
1984	257.2	369.5	150.1

Source: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 3

SOURCES OF CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Millions of dollars)

Year	Internal Funds	External Funds	Total Funds
1947	$ 2,221	$ 682	$ 2,903
1948	3,250	592	3,842
1949	2,971	641	3,612
1950	3,285	159	3,444
1951	3,847	316	4,163
1952	4,092	831	4,923
1953	4,591	520	5,111
1954	4,897	353	5,250
1955	5,429	520	5,949
1956	6,351	1,222	7,573
1957	6,536	1,211	7,747
1958	5,806	970	6,776
1959	6,211	241	6,452
1960	6,401	245	6,646
1961	6,892	649	7,541
1962	7,280	677	7,957
1963	7,710	925	8,635
1964	7,905	990	8,895
1965	8,681	1,196	9,877
1966	10,085	2,032	12,117
1967	10,682	2,791	13,473
1968	11,280	4,015	15,295
1969	11,715	2,998	14,713
1970	14,333	4,156	18,489
1971	15,132	5,059	20,191
1972	16,164	4,632	20,796
1973	23,211	4,786	27,997
1974	32,510	6,232	38,742
1975	23,931	10,129	34,060
1976	28,254	10,310	38,564
1977	33,427	8,678	42,105
1978	38,410	4,930	43,340
1979	62,828	8,568	71,396
1980	70,721	11,900	82,621
1981	64,930	16,585	81,515
1982	67,167	15,430	82,597
1983	66,962	8,707	75,669

Source: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 4

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Autos and Trucks	20.7	25.4	30.2	32.5	17.6	18.7	19.4	18.0	29.8	14.6	16.4	9.1	16.9	16.9	13.2
Drugs Soaps, etc.	20.7	21.3	16.2	21.4	17.7	13.7	15.1	14.8	17.6	19.9	21.5	21.9	22.0	20.4	18.4
Office Equip.	26.7	24.3	18.4	19.3	16.9	14.3	13.2	14.7	16.7	17.5	18.0	13.7	14.4	14.2	16.1
Glass Products	17.6	15.5	19.8	24.4	15.2	14.6	14.9	16.2	20.6	17.7	15.6	11.9	16.7	13.4	11.1
Elect.Equip.& Electronics	19.9	20.3	17.3	22.5	16.0	14.8	14.9	13.9	13.1	11.8	13.9	12.4	14.4	11.4	10.0
Auto Parts	23.4	22.9	18.9	22.7	15.7	13.1	13.2	10.4	15.9	12.9	12.1	7.4	13.1	7.3	6.8
Chemical Prod.	17.2	16.9	17.1	21.4	16.3	13.5	13.2	14.4	17.5	15.5	14.0	11.1	14.7	12.4	11.8
Household Equip.	33.2	26.6	15.4	23.0	12.9	12.5	10.7	10.3	12.2	12.7	9.6	7.7	14.1	10.0	9.2
Aircraft and Space	-	2.9	8.2	14.3	9.1	17.9	20.1	27.1	24.3	21.4	20.0	14.1	9.0	6.6	4.4
Soft Drinks	22.6	17.9	16.5	15.6	12.6	12.0	12.6	12.4	14.3	14.3	14.5	14.4	17.1	16.8	15.6
Other Stove and Clay Prod.	17.8	18.2	13.7	18.5	14.9	12.5	11.8	13.2	16.5	16.0	13.2	11.9	14.6	12.1	11.1
Lumber	33.1	23.1	10.7	17.0	16.0	11.4	10.3	9.7	14.0	12.6	9.5	9.2	11.7	7.5	6.6
Paper and Allied Prod.	23.7	19.6	12.8	17.1	16.1	12.0	12.2	12.4	14.0	14.2	10.6	9.3	10.5	9.1	8.1
Paint and Allied Prod.	19.0	13.1	10.3	17.1	12.9	10.7	12.7	13.6	16.3	18.0	15.8	12.8	12.5	13.0	12.5
Banking	20.4	21.0	17.8	15.9	12.3	12.2	12.0	11.4	12.0	12.2	12.5	11.7	11.5	11.6	9.7
Machinery	17.0	18.6	12.4	14.2	14.9	14.1	12.9	11.7	11.6	15.2	13.7	7.9	9.8	9.9	8.9
Rubber and Allied Prod.	16.0	13.4	8.7	15.9	16.4	13.4	14.0	11.9	15.3	13.8	12.4	10.6	12.9	10.3	10.2
Printing and Publ.	19.9	14.3	14.7	14.5	11.8	11.0	10.5	10.9	13.0	13.8	14.0	11.3	12.8	13.9	11.9
Petroleum	15.9	21.6	13.6	15.1	16.7	14.5	14.7	13.8	14.1	14.6	13.7	9.9	10.0	10.3	10.4
Other Food Prod.	21.2	16.9	14.0	15.4	11.8	10.0	11.1	11.5	11.8	11.7	11.5	11.4	11.8	11.4	12.8
Other Metal Prod.	15.7	17.1	11.1	16.4	14.9	11.4	11.5	11.1	12.8	12.5	12.0	8.9	11.4	6.8	7.3
Brewing	26.4	18.4	22.1	15.1	11.6	10.8	10.8	8.2	8.7	7.7	7.4	6.8	7.8	7.7	9.5
Building,Heat,Plumb. Equip.	19.6	20.1	12.6	17.8	13.8	10.9	10.2	9.8	11.3	11.3	9.4	8.1	9.1	5.3	4.6
Dairy Prod.	15.2	13.0	15.5	13.9	11.0	10.4	11.2	12.4	12.1	12.4	11.9	11.9	11.8	11.3	11.0
Non Ferrous Metals	14.8	15.3	8.0	14.5	13.5	11.5	11.0	10.8	16.6	17.2	9.7	6.8	8.9	7.2	6.8
Furniture and Fixtures	17.1	18.3	10.9	18.7	13.1	10.1	9.8	9.5	12.9	14.2	7.8	8.6	10.5	7.9	7.1
Iron and Steel	11.3	13.9	11.6	15.3	12.3	8.8	11.6	9.4	15.2	13.9	13.2	8.2	8.4	7.8	6.4
Total Manufacturing	17.0	18.2	13.8	17.1	14.4	11.3	12.7	12.3	14.9	13.8	12.9	9.8	11.7	10.6	9.9
Total Mining	16.0	20.5	12.0	13.2	13.0	10.1	7.9	8.2	13.0	13.8	9.6	7.3	7.8	8.0	8.3
Total Trade	18.3	18.2	13.2	14.8	11.5	10.1	9.9	9.9	10.9	11.4	10.8	10.5	11.9	10.7	10.2

Source: First National City Bank

Section V
Table 4a

NET INCOME AS A PERCENT OF NET WORTH: PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Autos & Trucks	19.4	19.6	19.9	23.4	17.8	12.0	16.6	13.8	5.8	15.0	17.2	17.6	6.1	5.7
Drugs & Medicine	17.8	18.7	19.8	22.1	22.5	20.3	19.8	17.7	18.8	19.0	19.8	21.4	21.0	20.4
Soap, Cosmetics	17.0	16.9	17.6	16.8	17.9	19.4	18.9	18.6	18.7	19.3	20.2	20.2	17.9	18.0
Office Eqpmt., Computers	17.2	18.0	17.9	18.7	18.1	17.8	19.0	17.4	13.9	12.5	13.8	16.7	16.3	15.9
Glass Products	11.6	11.6	12.1	13.5	12.7	11.1	11.9	12.2	9.0	11.1	12.5	12.9	10.6	9.8
Electr.Eqpmt.& Electronics	11.3	10.7	11.3	14.8	16.7	15.4	14.1	13.0	10.1	10.7	13.6	15.3	13.1	12.7
Auto Parts	10.2	11.4	12.0	13.4	14.0	11.4	12.6	13.0	8.9	10.4	13.5	14.4	10.4	9.6
Chemical Products	12.3	13.2	14.7	15.4	14.6	11.4	11.7	11.4	9.5	9.7	11.3	15.2	18.8	15.8
Household Appliances	11.5	12.8	13.9	15.0	15.0	14.7	14.0	13.5	11.9	12.1	15.4	15.6	5.3	6.2
Aerospace	12.9	11.7	12.9	15.4	15.7	13.4	13.9	11.4	6.7	6.3	8.9	11.7	13.8	11.7
Soft Drinks	16.6	17.9	20.7	21.1	22.0	23.3	22.7	22.5	22.7	23.1	22.1	22.0	19.0	20.6
Other Stone & Clay Prod.	9.0	9.1	10.6	9.9	9.2	7.3	8.9	9.3	7.0	8.7	10.8	11.9	9.1	8.2
Lumber & Wood Prod.	7.6	8.1	10.9	11.5	11.0	9.4	14.1	15.2	10.2	11.2	12.6	20.8	15.9	10.0
Paper & Allied Prod.	9.3	9.2	10.3	10.5	11.8	9.5	10.7	10.3	7.4	5.6	8.8	14.6	18.3	12.7
Paint & Allied Prod.	11.6	12.0	14.4	14.1	14.3	11.6	11.5	10.2	6.2	8.1	10.6	10.3	11.7	9.0
Baking	9.9	11.0	11.3	11.9	13.9	15.7	13.4	7.9	11.0	12.8	11.8	9.4	12.0	17.0
Machinery	9.9	9.7	11.9	14.4	16.9	14.7	13.5	12.9	10.5	10.3	10.6	12.7	12.2	11.6
Rubber & Allied Prod.	9.4	9.9	11.5	11.8	12.8	10.8	12.7	11.1	7.6	9.8	11.6	11.5	9.7	7.8
Printing & Publishing	10.5	12.4	14.0	16.9	17.9	15.4	14.9	14.8	12.5	12.6	13.8	15.4	14.5	12.9
Petroleum Prod'n & Refng.	10.6	11.5	11.6	11.9	12.6	12.8	13.1	11.9	11.0	11.2	10.8	15.6	19.6	13.9
Building,Heat. Plumb.Equip.	6.3	6.4	8.2	10.6	12.0	11.3	11.3	8.5	7.0	8.4	12.1	11.6	14.2	12.3
Other Food Products	12.5	12.1	12.7	12.6	13.3	12.3	12.7	12.1	12.8	12.3	14.2	14.8	14.4	14.1
Other Metal Products	9.0	9.3	10.4	12.9	14.1	13.8	13.3	12.5	10.4	8.9	10.4	12.9	14.0	13.0
Brewing	8.9	9.1	10.1	11.1	13.4	12.2	13.2	13.2	16.0	15.8	14.8	13.1	12.3	10.3
Dairy Products	10.5	11.2	12.2	12.5	12.6	11.8	11.7	11.8	12.0	12.6	12.8	13.0	13.2	14.3
Non Ferrous Metals	7.1	7.1	9.0	11.8	15.7	11.4	11.1	12.5	10.6	5.0	7.1	11.2	15.1	7.4
Furniture & Fixtures	7.8	8.1	11.1	13.0	14.3	11.9	11.3	12.4	8.4	11.9	12.5	13.0	8.2	7.0
Iron & Steel	5.4	7.3	9.2	9.6	9.4	7.4	8.5	7.4	4.6	4.6	6.1	9.8	17.1	10.0
Total Manufacturing	10.9	11.6	12.7	13.9	14.2	12.6	13.3	12.4	10.8	10.8	12.1	14.9	15.2	12.6
Total Mining	8.6	9.1	10.4	12.2	13.9	16.2	15.0	12.6	8.5	8.5	10.7	16.6	24.5	16.1
Total Trade	10.3	10.4	12.1	13.2	13.7	13.2	14.1	13.5	11.7	11.7	11.8	12.7	13.5	13.0

Source: First National City Bank

Section V
Table 4b

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1976	1977	1978	1979	1980	1981(p)
Autos & Trucks	18.3	20.8	17.4	10.5	-13.6	-6.0
Drugs & Medicine	20.0	19.2	22.0	22.9	22.2	19.4
Soap, Cosmetics	18.3	19.7	20.9	19.9	19.7	18.1
Office Eqpmt., Computers	17.4	18.8	23.3	20.7	21.2	18.1
Glass Products	17.3	11.5	11.1	14.6	12.9	11.3
Elec.Eqpmt.,& Electronics	16.2	16.7	17.5	17.3	18.7	17.5
Auto Parts	15.3	16.4	17.4	18.2	11.9	16.2
Chemical Products	16.1	14.3	14.9	17.3	16.5	16.7
Household Appliances	17.4	19.4	16.8	16.6	14.3	13.6
Aerospace	13.6	17.4	17.0	21.8	17.7	12.7
Soft Drinks	22.4	22.3	22.3	22.3	20.9	23.0
Other Stone & Clay Prod.	10.6	12.2	17.2	14.5	5.5	10.4
Lumber & Wood Products	15.5	16.0	17.7	20.2	11.0	8.3
Paper & Allied Products	14.8	14.1	14.0	17.4	13.8	14.0
Paint & Allied Products	10.9	8.1	8.8	11.0	12.8	13.4
Baking	16.1	17.8	19.7	17.4	17.4	18.1
Machinery	13.6	15.0	16.5	18.3	14.3	14.4
Rubber & Allied Prod.	7.5	10.0	6.2	6.4	4.2	10.9
Printing & Publishing	13.9	16.8	21.2	19.4	18.5	19.0
Petroleum Prod'n. & Refing.	14.8	14.0	14.5	22.6	25.4	20.2
Building; Heating, Plumbing Equipment	21.0	20.4	21.8	26.0	22.4	18.3
Other Food Products	16.1	16.3	17.6	17.3	17.8	19.1
Other Metal Products	15.0	14.8	13.6	16.5	13.7	13.1
Brewing	11.5	10.5	10.1	12.5	16.0	15.9
Dairy Products	14.7	14.9	15.6	14.8	16.2	14.5
Non Ferrous Metals	8.5	8.0	9.4	18.6	18.5	10.5
Furniture & Fixtures	9.8	8.5	11.6	7.2	9.0	12.8
Iron & Steel	8.7	4.4	9.4	11.7	10.0	12.2
Total Manufacturing	15.0	14.9	15.9	18.4	16.5	15.7
Total Mining	16.5	8.5	8.2	19.8	19.1	19.2
Total Trade	14.7	15.0	15.3	15.7	13.8	13.6

(p) Preliminary

Source: First National City Bank

DOMESTIC AND FOREIGN NET INCOME OF A GROUP OF PETROLEUM COMPANIES

Year	NET INCOME (MILLIONS OF DOLLARS) U.S.	Foreign	Total
1960	$ 1,887	$ 1,581	$ 3,468
1961	1,958	1,719	3,677
1962	2,044	1,963	4,007
1963	2,392	2,149	4,541
1964	2,556	2,156	4,712
1965	2,927	2,164	5,091
1966	3,438	2,214	5,652
1967	3,727	2,421	6,148
1968	3,913	2,751	6,664
1969	3,774	2,928	6,702
1970	3,609	3,029	6,638
1971	3,372	3,753	7,125
1972	3,526	3,155	6,681
1973	4,008	7,396	11,404
1974	6,119	9,931	16,050
1975	5,623	5,530	11,513
1976	7,165	5,462	12,627
1977	7,420	6,565	13,985
1978	7,968	6,582	14,550
1979	12,237	18,383	30,620
1980	15,073	19,047	34,120
1981	15,916	12,537	28,453
1982	12,831	8,431	21,262
1983	11,421	11,247	22,668

SOURCE: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES			GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS			COMBINED		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1947	2,825	1,225	4,050	250	70	320	3,075	1,295	4,370
1948	3,350	1,600	4,950	300	100	400	3,650	1,700	5,350
1949	3,000	1,925	4,925	325	100	425	3,325	2,025	5,350
1950	2,925	1,500	4,425	300	125	425	3,225	1,625	4,850
1951	3,625	1,700	5,325	400	150	550	4,025	1,850	5,875
1952	4,400	2,350	6,750	500	175	675	4,900	2,525	7,425
1953	5,025	2,550	7,575	575	175	750	5,600	2,725	8,325
1954	5,350	2,725	8,075	600	200	800	5,950	2,925	8,875
1955	5,600	2,950	8,500	625	250	875	6,225	3,200	9,425
1956	6,050	3,975	10,025	700	300	1,000	6,750	4,275	11,025
1957	6,400	5,000	11,400	700	375	1,075	7,100	5,375	12,475
1958	5,300	5,400	10,700	650	400	1,050	5,950	5,800	11,750
1959	5,272	5,775	11,050	650	470	1,120	5,925	6,245	12,170
1960	5,175	5,350	10,525	625	460	1,085	5,800	5,810	11,610
1961	5,100	5,325	10,425	600	420	1,020	5,700	5,745	11,445
1962	5,725	5,385	11,110	575	425	1,000	6,300	5,800	12,100
1963	5,475	5,675	11,150	600	450	1,050	6,075	6,125	12,200
1964	6,100	6,175	12,275	650	480	1,130	6,750	6,655	13,405
1965	6,375	6,800	13,175	610	570	1,180	6,985	7,370	14,355
1966	7,125	7,550	14,675	650	460	1,110	7,775	8,010	15,785
1967	7,650	7,925	15,575	615	575	1,190	8,265	8,500	16,765
1968	8,350	9,550	17,900	715	615	1,330	9,065	10,165	19,230
1969	8,175	10,200	18,375	725	655	1,380	8,900	10,855	19,755
1970	8,225	11,900	20,125	665	675	1,340	8,890	12,575	21,465
1971	7,250	14,550	21,800	715	680	1,395	7,965	15,230	23,195
1972	9,050	15,900	24,950	740	800	1,540	9,790	16,700	26,490
1973	10,640	19,355	29,995	850	850	1,700	11,490	20,205	31,695
1974	16,625	27,075	43,700	1,130	1,055	2,185	17,755	28,130	45,885

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Section V
Table 6a

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES			GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS			COMBINED		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1975	17,725	31,900	49,625	1,195	1,130	2,325	18,920	33,030	51,950
1976	22,085	34,640	56,725	1,375	1,160	2,535	23,460	35,800	59,260
1977	22,400	39,180	61,580	1,645	1,750	3,395	24,045	40,930	64,975
1978	24,475	43,900	68,375	1,975	2,060	4,035	26,450	45,960	72,410
1979	32,200	49,425	81,625	2,600	2,725	5,325	34,800	52,150	86,950
1980	42,900	62,625	105,525	3,850	3,775	7,625	46,750	66,400	113,150
1981	63,000	75,600	138,600	5,700	4,900	10,600	68,700	80,500	149,200
1982	63,550	75,875	139,425	4,500	5,100	9,600	68,050	80,975	149,025
1983	45,600	66,175	111,775	4,250	4,175	8,425	49,850	70,350	120,200

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Section V
Table 7

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other	Total
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,234
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860
1971	14,389	5,059	(3)	743	20,191	12,511	3,836	2,029	972	19,348
1972	14,377	4,632	(3)	1,787	20,796	12,717	3,774	3,258	751	20,500
1973	20,623	4,786	(3)	2,588	27,997	14,247	4,056	4,023	381	22,707
1974	28,165	6,232	(3)	4,345	38,742	22,270	4,681	4,262	894	32,107

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(3) Included in Long Term Debt Issued.
(4) Includes preferred and common stock retired.

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

Section V
Table 7a

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other(1)	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other(2)	Total
1975	22,714	10,129	(3)	1,217	34,060	24,205	4,819	5,316	1,740	36,080
1976	25,828	10,310	(3)	2,426	38,564	26,036	5,208	5,230	829	37,303
1977	29,003	8,678	(3)	4,424	42,105	27,156	5,995	5,954	1,508	40,613
1978	33,184	4,930	(3)	5,226	43,340	28,770	6,781	6,885	1,562	43,998
1979	55,844	8,568	(3)	6,984	71,396	42,229	8,127	8,249	2,473	61,078
1980	66,859	11,900	(3)	5,862	82,821	53,776	10,305	9,728	2,613	76,422
1981	63,207	16,585	(3)	1,723	81,515	63,976	11,068	10,020	4,867	89,931
1982	60,884	14,980	450	6,283	82,597	64,538	11,265	9,281	3,731	90,019
1983	60,256	8,407	300	6,706	75,669	49,521	11,057	7,524	4,507	72,609

(1) Other includes sales of assets and other transactions.
(2) Other includes investments and advancements and preferred and common stock retired.
(3) Included in Long Term Debt Issued.

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

Section V
Table 8

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY
(Millions of Dollars)

Year	PRODUCTION		TRANSPORTATION		REFINERIES & CHEMICAL PLANTS	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1947	1,750	475	295	310	400	225
1948	2,100	685	310	255	600	405
1949	2,000	770	250	405	420	475
1950	2,100	475	215	430	275	375
1951	2,650	575	285	410	325	400
1952	3,200	890	385	505	470	490
1953	3,525	890	425	610	675	620
1954	3,800	970	325	740	800	585
1955	4,100	1,110	225	655	835	580
1956	4,475	1,725	225	775	825	725
1957	4,525	2,180	345	1,060	950	980
1958	3,650	1,925	350	1,520	725	1,045
1959	3,850	2,030	260	1,720	525	1,020
1960	3,735	1,875	265	1,395	560	1,030
1961	3,525	1,855	230	1,140	685	1,265
1962	4,000	1,665	340	1,205	660	1,415
1963	3,650	1,520	415	1,155	600	1,765
1964	3,960	1,605	340	1,570	675	1,515
1965	3,760	2,025	265	1,510	1,125	1,665
1966	3,770	1,870	300	1,755	1,575	2,435
1967	4,025	1,975	400	1,740	1,600	2,550
1968	4,925	2,535	475	2,280	1,450	2,980
1969	4,750	2,790	400	2,600	1,525	2,995

Year	MARKETING		OTHER CAPITAL EXPENDITURES		TOTAL CAPITAL EXPENDITURES	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1947	300	175	80	40	2,825	1,225
1948	225	165	115	90	3,350	1,600
1949	240	215	90	60	3,000	1,925
1950	275	180	60	40	2,925	1,500
1951	300	245	65	70	3,625	1,700
1952	280	375	65	90	4,400	2,350
1953	325	360	75	70	5,025	2,550
1954	350	385	75	45	5,350	2,725
1955	375	535	65	70	5,600	2,950
1956	450	685	75	65	6,050	3,975
1957	475	710	105	70	6,400	5,000
1958	400	745	175	165	5,300	5,400
1959	450	885	190	120	5,275	5,775
1960	475	950	140	100	5,175	5,350
1961	525	930	135	135	5,100	5,325
1962	600	985	125	105	5,725	5,375
1963	650	1,085	160	150	5,475	5,675
1964	850	1,340	275	145	6,100	6,175
1965	1,000	1,430	225	170	6,375	6,800
1966	1,100	1,310	380	180	7,125	7,550
1967	1,250	1,455	375	205	7,650	7,925
1968	1,150	1,515	350	240	8,350	9,550
1969	1,250	1,555	250	260	8,175	10,200

Source: The Chase Manhattan Bank

Section V
Table 8a

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY
(Millions of Dollars)

Year	PRODUCTION		TRANSPORTATION		REFINERIES & CHEMICAL PLANTS	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1970	4,335	2,895	550	2,915	1,625	3,900
1971	3,385	3,830	675	3,435	1,550	4,740
1972	5,915	4,190	425	4,580	1,350	4,955
1973	7,440	5,485	550	7,230	1,475	4,565
1974	11,450	8,085	1,660	9,760	2,600	7,115
1975	9,380	9,875	3,725	11,510	3,600	8,270
1976	13,460	12,315	3,900	12,350	3,775	7,635
1977	15,180	17,280	2,300	8,060	3,700	10,965
1978	17,650	20,055	1,350	7,380	4,050	13,275
1979	24,600	24,465	1,450	6,575	4,625	14,385
1980	33,100	33,775	2,150	7,725	5,650	16,125
1981	51,700	41,675	1,725	10,300	7,250	18,325
1982	52,275	43,400	1,300	7,650	7,550	19,525
1983	37,275	36,575	1,000	7,725	5,100	17,075

Year	MARKETING		OTHER CAPITAL EXPENDITURES		TOTAL CAPITAL EXPENDITURES	
	U.S.	FOREIGN	U.S.	FOREIGN	U.S.	FOREIGN
1970	1,450	1,770	265	420	8,225	11,900
1971	1,350	2,030	290	515	7,250	14,550
1972	1,100	1,725	260	450	9,050	15,900
1973	850	1,630	325	445	10,640	19,355
1974	650	1,565	325	550	16,625	27,075
1975	650	1,510	370	735	17,725	31,900
1976	625	1,555	325	785	22,085	34,640
1977	775	1,895	445	980	22,400	39,180
1978	950	2,290	475	980	24,475	43,900
1979	975	2,775	550	1,225	32,200	49,425
1980	1,300	3,750	700	1,250	42,900	62,625
1981	1,425	3,775	900	1,525	63,000	75,600
1982	1,400	3,700	1,025	1,600	63,550	75,875
1983	1,375	3,300	850	1,500	45,600	66,175

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry

Section V
Table 9

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES
(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1947	$ 1,950	$ 991	$ 959
1948	2,300	1,318	982
1949	2,215	1,217	998
1950	2,325	1,157	1,168
1951	2,975	1,620	1,355
1952	3,625	1,855	1,770
1953	3,975	2,014	1,961
1954	4,300	2,180	2,120
1955	4,675	2,383	2,292
1956	5,075	2,621	2,454
1957	5,100	2,673	2,427
1958	4,225	2,241	1,984
1959	4,350	2,455	1,895
1960	4,200	2,412	1,788
1961	4,000	2,417	1,583
1962	4,425	2,848	1,577
1963	4,125	2,452	1,673
1964	4,450	2,817	1,633
1965	4,210	2,847	1,363
1966	4,250	2,990	1,260
1967	4,365	3,212	1,153
1968	5,390	4,087	1,303
1969	5,250	3,768	1,482
1970	4,775	3,119	1,656
1971	3,900	2,740	1,160
1972	6,480	4,225	2,255
1973	8,140	5,275	2,865
1974	12,355	8,550	3,805
1975	10,250	7,007	3,243
1976	14,510	8,711	5,799
1977	16,500	10,159	6,341
1978	19,300	11,378	7,922
1979	26,750	20,616	6,134

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES
CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES
(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1980	36,200	25,053	11,147
1981	56,475	32,765	23,710
1982	55,400	30,902	24,498
1983	40,875	25,537	15,338

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

Section V
Table 10

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION, DEVELOPMENT AND PRODUCTION, MILLION DOLLARS(1)

	1973	1974	1975	1976	1977	1978	1979	1980	1981
Exploration Expenditures									
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2	8,678.6	13,545.7
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2.579.5	2,885.4	7,036.5	7,899.2	11,188.2
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5	294.7	376.2
Geological and geophysical	399.5	567.6	652.8	692.3	833.3	1,028.7	1,218.2	1,871.1	2,823.0
Lease rental	150.7	177.8	204.7	206.7	245.8	285.3	311.6	429.1	600.4
Test Hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0	28.0	34.2
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5	757.0	999.0
General and administrative	203.6	290.9	341.7	404.8	413.5	488.8	661.7	892.8	1,107.5
TOTAL EXPLORATION(3)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2	20,830.8	30,674.2
Development Expenditures									
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5	10,193.4	16,107.5
Lease equipment	572.2	824.1	1,499.6	1,486.8	1,607.9	2,175.0	2,146.0	3,572.8	4,760.3
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3	3,414.6	972.6
Improved recovery programs	352.5	625.4	928.9	378.4	461.4	639.3	528.3	941.2	1,458.2
Other, incl. direct overhead	(2)	(2)	(2)	978.9	672.3	467.5	544.3	712.5	801.6
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2	744.4	915.6
TOTAL DEVELOPMENT(3)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6	19,578.9	25,015.7
Producing Expenditures									
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,507.4	5,277.9	6,152.2	7,295.3	9,461.9	13,505.1
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4	4,564.9	6,638.6
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1.181.3	1,709.8	2,244.8
Other indirect expenses	193.5	252.1	358.0	369.1	435.6	393.6	538.6	6,508.7	20,557.5
TOTAL PRODUCTION(3)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6	22,245.2	42,945.8
TOTAL EXPENDITURES(3)	12,694.2	18,706.1	18,558.7	22,558.7	25,725.1	30,373.2	44,686.4	62,655.0	98,635.7

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(1) Data not available prior to 1973
(2) Included in improved recovery programs before 1976
(3) Totals do not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION DEVELOPMENT AND PRODUCTION, MILLION DOLLARS(1)

	1982
Exploration Expenditures	
Drilling and equipping wells	12,935.8
Acquiring undeveloped acreage	8,163.3
Land dept. leasing and scouting	458.0
Geological and geophysical	2,997.5
Lease rental	643.7
Test Hole contributions	47.2
Other, incl. direct overhead	1,192.0
General and administrative	1,420.8
TOTAL EXPLORATION(3)	27,858.3
Development Expenditures	
Drilling and equipping wells	15,578.0
Lease equipment	5,134.6
Acquiring producing acreage	1,511.5
Improved recovery programs	1,943.8
Other, incl. direct overhead	740.2
General and administrative	950.7
TOTAL DEVELOPMENT (3)	25,858.8
Producing Expenditures	
Direct operating expenditures	14,405.3
Taxes, excl. income tax	14,008.3
General and administrative	3,047.8
Other indirect expenses	6,605.8
TOTAL PRODUCTION(3)	38,067.2
TOTAL EXPENDITURES(3)	91,784.3

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(1) Data not available prior to 1973
(3) Totals do not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas

Section V
Table 11

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S.(1)

(Millions of Dollars)

	YEAR																
	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL EXPENDITURES																	
1. Air.............	$125	$167	$187	$231	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$2,184	$2,311	$2,553
2. Water...........	146	191	205	224	303	415	379	402	530	629	822	950	884	1,001	1,299	1,786	1,705
3. Land and other...	-	-	-	-	60	101	91	100	150	456	336	383	194	203	357	516	551
TOTAL...........	$271	$358	$392	$455	$683	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$3,840	$4,613	$4,809
CAPITAL EXPENDITURES																	
1. Air.............	$69	$100	$112	$145	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$728	$711	$932
2. Water...........	79	114	128	136	163	224	184	194	271	356	411	434	340	394	527	804	745
3. Land and other...	-	-	-	-	34	57	51	52	97	396	269	184	89	92	183	273	282
TOTAL...........	$148	$214	$240	$281	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$1,438	$1,788	$1,959
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES																	
1. Air.............	$43	$50	$53	$62	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$1,392	$1,538	$1,554
2. Water...........	57	66	75	84	136	185	187	201	249	262	401	502	532	594	754	960	933
3. Land and other...	-	-	-	-	24	41	37	43	50	55	63	197	101	106	165	231	248
TOTAL...........	$100	$116	$128	$146	$268	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$2,311	$2,729	$2,735
RESEARCH AND DEVELOPMENT EXPENDITURES																	
1. Air.............	$13	$17	$22	$24	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$64	$62	$67
2. Water...........	10	11	2	4	4	6	8	7	10	11	10	14	12	13	18	22	27
3. Land and other...	-	-	-	-	2	3	3	5	3	5	4	2	4	5	9	12	21
TOTAL...........	$23	$28	$24	$28	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$91	$96	$115

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(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry 1971-1980

Section V
Table 11a

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S.(1)

(Millions of Dollars)

	YEAR
	1983
TOTAL EXPENDITURES	
1. Air	$2,014
2. Water	1,552
3. Land and other	439
TOTAL	4,005
CAPITAL EXPENDITURES	
1. Air	$497
2. Water	627
3. Land and other	178
TOTAL	1,302
ADMINISTRATIVE, OPERATING AND MAINTENANCE EXPENDITURES	
1. Air	$1,457
2. Water	901
3. Land and other	243
TOTAL	2,601
RESEARCH AND DEVELOPMENT EXPENDITURES	
1. Air	$60
2. Water	24
3. Land and other	18
TOTAL	102

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(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry

Section V
Table 12

SUMMARY FINANCIAL DATA FOR TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Millions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976
TOTAL REVENUE	$ 61,178.3	$ 67,478.8	$ 73,499.2	$ 81,297.0	$ 88,581.5	$110,348.2	$194,355.9	$202,114.8	$225,540.2
DEDUCTIONS:									
Payroll and Benefits	6,587.5	7,198.5	7,746.9	8,765.4	9,407.2	10,042.6	11,532.3	13,630.6	14,666.3
Depreciation, Depletion and Amortization	4,130.6	4,426.4	4,871.4	5,221.5	5,509.5	6,140.0	7,102.7	8,030.6	8,008.9
Interest	763.3	1,007.0	1,183.5	1,304.6	1,381.7	1,509.3	1,719.6	1,773.2	2,048.0
Other Costs and Expenses	35,125.2	39,451.2	42,946.1	46,768.1	51,460.1	63,919.6	129,988.4	136,988.6	159,347.8
Total Taxes	8,772.0	9,590.5	10,956.6	13,147.7	14,781.5	19,325.5	30,839.1	31,788.1	29,846.3
TOTAL DEDUCTIONS	$ 55,378.6	$ 61,673.6	$ 67,704.5	$ 75,207.3	$ 82,540.0	$100,937.0	$181,172.1	$192,211.1	$213,917.3
NET INCOME	$ 5,805.1	$ 5,635.7	$ 5,796.7	$5,846.8	$ 5,783.6	$ 9,467.5	$ 13,149.0	$ 9,901.2	$ 11,640.9

Source: Financial Trends of Leading U.S. Oil Companies, 1968-1983, API, Discussion Paper #017R, October 1984

Section V
Table 12a

SUMMARY FINANCIAL DATA FOR TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Millions of Dollars)

	1977	1978	1979	1980	1981	1982	1983
TOTAL REVENUE	$250,402.4	$273,805.8	$364,587.6	$485,103.6	$538,711.3	$496,255.5	$453,488.9
DEDUCTIONS:							
Payroll and Benefits	16,210.4	18,344.8	22,009.7	26,894.9	30,010.3	32,424.7	31,439.5
Depreciation, Depletion and Amortization	9,134.2	10,889.6	12,728.0	15,105.4	18,067.9	21,106.6	22,828.4
Interest	2,942.4	3,602.8	3,891.7	4,073.3	5,557.6	6,050.9	5,862.1
Other Costs and Expenses	175,856.6	190,082.2	256,527.0	342,705.7	382,681.7	352,749.3	312,845.1
Total Taxes	238,294.2	260,458.5	341,637.9	455,788.5	511,045.7	475,152.7	432,335.0
TOTAL DEDUCTIONS	$238,294.2	$260,458.5	$341,637.9	$455,788.5	$511,045.7	$475,152.7	$432,335.0
NET INCOME	$ 12,089.7	$ 13,385.2	$ 22,986.6	$ 29,319.8	$ 27,665.6	$ 21,138.3	$ 21,266.6

SOURCE: Financial Trends of Leading U.S. Oil Companies 1968-1983, API, Discussion Paper #017, October 1984

Section V
Table 13

CAPITAL EXPENDITURES OF TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Billions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL												
U.S.	6.2	6.2	6.2	5.7	6.2	7.3	12.8	13.6	15.4	16.0	16.0	20.5
World	9.6	9.7	9.6	9.7	10.1	12.0	18.9	20.1	21.3	22.5	24.0	30.6
EXPLORATION & PRODUCTION												
U.S.	3.2	3.0	2.7	2.4	3.2	4.2	7.7	6.5	8.0	8.4	9.1	13.1
World	4.8	4.5	3.9	3.7	4.7	6.0	10.7	10.2	11.5	12.7	14.7	19.8
REFINING, MARKETING, TRANSPORTATION												
U.S.	1.9	2.2	2.6	2.6	2.2	2.0	3.2	4.7	4.2	3.0	2.9	3.5
World	3.4	4.0	4.6	5.0	4.3	4.8	6.0	7.1	6.1	4.9	4.7	5.9
TOTAL PETROLEUM												
U.S.	5.1	5.2	5.3	5.0	5.4	6.2	10.9	11.2	12.2	11.4	12.0	16.6
World	8.2	8.5	8.5	8.7	9.0	10.8	16.7	17.3	17.6	17.6	19.4	25.7
CHEMICALS												
U.S.	0.6	0.5	0.5	0.3	0.4	0.4	0.9	1.4	2.1	2.6	2.2	2.0
World	0.8	0.6	0.6	0.5	0.5	0.5	1.1	1.6	2.4	2.7	2.3	2.0
PETROLEUM & CHEMICALS												
U.S.	5.7	5.7	5.8	5.3	5.8	6.6	11.8	12.6	14.3	14.0	14.2	18.6
World	9.0	9.1	9.1	9.2	9.5	11.3	17.8	18.9	20.0	20.3	21.8	28.0
OTHER ENERGY												
U.S.	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.6	0.9	0.9	0.9
World	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.7	1.0	1.0	1.3
TOTAL ENERGY												
U.S.	5.9	5.9	6.0	5.5	6.0	6.8	12.3	13.2	14.9	14.9	15.1	19.5
World	9.2	9.3	9.3	9.4	9.7	11.5	18.4	19.6	20.7	21.3	22.8	29.3
OTHER												
U.S.	0.3	0.3	0.2	0.2	0.2	0.5	0.5	0.4	0.5	1.1	0.9	1.0
World	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.6	1.2	1.2	1.3

Source: Financial Trends of Leading U.S. Oil Companies 1968-1983, API, Discussion Paper #017, October 1984

CAPITAL EXPENDITURES OF TWENTY-FOUR LEADING U.S. OIL COMPANIES
(Billions of Dollars)

	1980	1981	1982	1983
TOTAL				
U.S.	27.6	39.4	35.4	28.4
World	40.7	53.5	49.8	40.3
EXPLORATION & PRODUCTION				
U.S.	17.5	26.3	22.5	18.9
World	26.1	35.0	32.1	26.8
REFINING, MARKETING, TRANSPORTATION				
U.S.	4.3	6.4	6.1	5.1
World	7.5	9.6	8.8	7.0
TOTAL PETROLEUM				
U.S.	21.8	32.7	28.6	24.0
World	33.6	44.6	40.9	33.8
CHEMICALS				
U.S.	2.5	2.6	2.0	1.1
World	2.5	2.6	2.0	1.7
PETROLEUM & CHEMICALS				
U.S.	24.3	35.3	30.6	25.1
World	36.5	48.1	43.9	35.5
OTHER ENERGY				
U.S.	1.4	1.6	2.3	1.0
World	1.9	2.4	3.0	2.1
TOTAL ENERGY				
U.S.	25.7	36.9	32.9	26.1
World	38.4	50.5	46.9	37.6
OTHER				
U.S.	1.9	2.5	2.5	2.3
World	2.3	3.0	2.9	2.7

Source: Financial Trends of Leading U.S. Oil Companies 1968-1983, API, Discussion Paper #017, October 1984

NET INCOME AS A PERCENT OF STOCKHOLDERS' EQUITY
OIL AND NON-OIL COMPANIES

Year	API-24 Companies(1)	Non-Petroleum Manufacturing(2)
1968	12.5	14.1
1969	11.3	13.6
1970	10.9	10.4
1971	10.4	11.1
1972	9.8	13.1
1973	15.0	15.3
1974	18.6	13.8
1975	12.8	12.2
1976	14.0	14.8
1977	13.4	14.6
1978	13.7	15.5
1979	20.9	16.4
1980	22.8	13.1
1981	18.7	13.6
1982	13.1	9.2
1983	12.4	11.0
Median	13.3	13.6

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(1) Net income as a percent of average stockholders' equity.

(2) Net income as a percent of average stockholders' equity. Calculations based on Standard & Poor's Compustat data base, All Industrial Aggregate excluding non-manufacturing (e.g., retail) and petroleum industry sectors. The median number of non-oil comopanies over the period was 868; the range was 776-948.

Source: Financial Trends of Leading U.S. Oil Companies 1968-1983, API,
Discussion Paper #017, October 1984

BASIC PETROLEUM DATA BOOK

SECTION VI. PRICES

Table 1. Average Annual Wellhead Price of United States Crude Oil, Current and Constant 1967 Dollars

Table 2. Average Annual Wellhead Price of United States Natural Gas, Current and Constant 1967 Cents

Table 3. Refiner Acquisition Cost of Crude Oil

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Table 5. Trends of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

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Table 13. Average Price of Natural Gas Consumed by End-Use Sector

Table 14. Cost of U.S. Petroleum Imports

Section VI
Table 1

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES CRUDE OIL
CURRENT AND CONSTANT 1967 DOLLARS
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities[1] (1967 = 100)	Price in 1967 Constant Dollars
1947	$1.93	76.5	$2.52
1948	2.60	82.8	3.14
1949	2.54	78.7	3.23
1950	2.51	81.8	3.07
1951	2.53	91.1	2.78
1952	2.53	88.6	2.86
1953	2.68	87.4	3.07
1954	2.78	87.6	3.17
1955	2.77	87.8	3.15
1956	2.79	90.7	3.08
1957	3.09	93.3	3.31
1958	3.01	94.6	3.18
1959	2.90	94.8	3.06
1960	2.88	94.9	3.03
1961	2.89	94.5	3.06
1962	2.90	94.8	3.06
1963	2.89	94.5	3.06
1964	2.88	94.7	3.04
1965	2.86	96.6	2.96
1966	2.88	99.8	2.89
1967	2.92	100.0	2.92
1968	2.94	102.5	2.87
1969	3.09	106.5	2.90
1970	3.18	110.4	2.88
1971	3.39	113.9	2.98
1972	3.39	119.1	2.85
1973	3.89	134.7	2.89
1974	6.74	160.1	4.21
1975	7.56	174.9	4.32
1976	8.14	182.9	4.45
1977	8.57	194.2	4.41
1978	8.96	209.3	4.28
1979	12.51	235.6	5.31
1980	21.59	268.7	8.03
1981	31.77	293.4	10.83
1982	28.52	299.3	9.53
1983	26.19	303.1	8.64
1984	25.88	310.3	8.34

---

(1) For 1976 and prior years figures are for Wholesale Price Index

Source: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES NATURAL GAS
CURRENT AND CONSTANT 1967 CENTS
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index(2) All Commodities (1967 = 100)	Price in 1967 Constant Cents
1947	6.0	76.5	7.8
1948	6.5	82.8	7.9
1949	6.3	78.7	8.0
1950	6.5	81.8	7.9
1951	7.3	91.1	8.0
1952	7.8	88.6	8.8
1953	9.2	87.4	10.5
1954	10.1	87.6	11.5
1955	10.4	87.8	11.8
1956	10.8	90.7	11.9
1957	11.3	93.3	12.1
1958	11.9	94.6	12.6
1959	12.9	94.8	13.6
1960	14.0	94.9	14.8
1961	15.1	94.5	16.0
1962	15.5	94.8	16.4
1963	15.8	94.5	16.7
1964	15.4(1)	94.7	16.3
1965	15.6	96.6	16.1
1966	15.7	99.8	15.7
1967	16.0	100.0	16.0
1968	16.4	102.5	16.0
1969	16.7	106.5	15.7
1970	17.1	110.4	15.5
1971	18.2	113.9	16.0
1972	18.6	119.1	15.6
1973	21.6	134.7	16.0
1974	30.4	160.1	19.0
1975	44.5	174.9	25.4
1976	58.0	182.9	31.7
1977	79.0	194.2	40.7
1978	90.5	209.3	43.2
1979	117.8	235.6	50.0
1980	159.0	268.7	59.2
1981	198.0	293.4	67.5
1982	246.0	299.3	82.2
1983	259.0	303.1	85.5
1984	263.0	310.3	84.8

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(1) For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i.
For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.

(2) For 1976 and prior years, figures are for Wholesale Price Index.

Source: Current Price, U.S. Energy Information Administration.
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

Section VI
Table 3

REFINER ACQUISITION COST OF CRUDE OIL
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1968(1)	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99
1984	28.53	28.88	28.63

(1) Not available prior to 1968.

SOURCE: U.S. Department of Energy: Annual Energy Review and Monthly Energy Review.

Section VI
Table 4

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM
(1967 = 100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1947	54.9	N.A.	N.A.	N.A.
1948	59.5	N.A.	N.A.	N.A.
1949	62.9	N.A.	N.A.	N.A.
1950	64.3	N.A.	N.A.	N.A.
1951	70.8	N.A.	N.A.	N.A.
1952	70.9	N.A.	N.A.	N.A.
1953	73.9	N.A.	N.A.	N.A.
1954	76.5	76.0	69.2	66.0
1955	79.7	80.6	72.8	70.4
1956	84.7	91.9	77.7	77.7
1957	90.5	102.2	86.2	87.9
1958	91.0	105.5	89.8	91.6
1959	91.1	105.1	91.6	93.4
1960	91.2	104.1	91.6	93.4
1961	92.5	102.9	89.5	91.3
1962	93.8	103.5	88.0	89.7
1963	93.3	105.9	88.8	90.6
1964	94.8	103.6	91.9	93.4
1965	95.2	97.9	96.2	97.9
1966	96.5	97.9	96.2	97.9
1967	100.0	100.0	100.0	100.0
1968	106.4	104.0	101.5	102.5
1969	112.7	109.2	104.5	106.4
1970	118.7	113.2	109.1	111.2
1971	122.6	124.7	120.7	122.7
1972	127.3	133.7	128.4	131.1
1973	133.2	139.1	133.2	136.3
1974	157.8	189.8	170.7	181.3

N.A. Not available

Source: U.S. Bureau of Labor Statistics, Wholesale Price Index

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM
(1967 = 100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1975	196.3	226.9	211.5	220.1
1976	217.7	234.6	223.1	239.2
1977	236.6	260.5	244.3	270.0
1978	261.6	296.6	271.6	299.8
1979	289.6	303.4	285.2	316.9
1980	335.5	336.2	326.9	366.9
1981	401.0	394.0	407.6	501.7
1982	439.6	416.8	451.9	584.0
1983	427.9	406.3	406.1	458.0
1984	424.9	405.6	386.4	NA

Source: U.S. Bureau of Labor Statistics, Producer Price Index

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation
		Cents per Gallon				Index: 1967 = 100		
1947	16.93	6.18	23.11	66.9	70.6	61.1	78.2	68.7
1948	19.54	6.34	25.88	72.1	76.6	65.1	83.3	72.2
1949	20.27	6.52	26.79	71.4	73.5	68.0	80.1	74.9
1950	20.08	6.68	26.76	72.1	74.5	70.4	79.0	74.4
1951	20.31	6.84	27.15	77.8	82.8	73.2	86.1	76.6
1952	20.04	7.32	27.36	79.5	84.3	76.2	85.3	76.9
1953	21.28	7.41	28.69	80.1	83.0	80.3	84.6	77.7
1954	21.56	7.48	29.04	80.5	82.8	83.2	84.5	76.9
1955	21.42	7.65	29.07	80.2	81.6	84.3	84.1	76.7
1956	21.57	8.36	29.93	81.4	82.2	85.9	85.8	77.8
1957	22.11	8.85	30.96	84.3	84.9	87.5	87.3	80.7
1958	21.47	8.91	30.38	86.6	88.5	89.1	87.5	83.9
1959	21.18	9.31	30.49	87.3	87.1	90.4	88.2	85.3
1960	20.99	10.14	31.13	88.7	88.0	91.7	89.6	87.3
1961	20.53	10.23	30.76	89.6	89.1	92.9	90.4	89.3
1962	20.36	10.28	30.64	90.6	89.9	94.0	90.9	91.3
1963	20.11	10.31	30.42	91.7	91.2	95.0	91.9	92.8
1964	19.98	10.37	30.35	92.9	92.4	95.9	92.7	95.0
1965	20.70	10.45	31.15	94.5	94.4	96.9	93.7	95.9
1966	21.57	10.51	32.08	97.2	99.1	98.2	96.1	97.5
1967	22.55	10.61	33.16	100.0	100.0	100.0	100.0	100.0
1968	22.93	10.78	33.71	104.2	103.6	102.4	105.4	104.7
1969	23.85	10.99	34.84	109.8	108.9	105.7	111.5	108.7
1970	24.55	11.14	35.69	116.3	114.9	110.1	116.1	113.4
1971	25.20	11.23	36.43	121.3	118.4	115.2	119.8	119.3
1972	24.46	11.67	36.13	125.3	123.5	119.2	122.3	122.8
1973	26.88	11.94	38.82	133.1	141.4	124.3	126.8	125.9
1974	40.41	12.00	52.41	147.7	161.7	130.6	136.2	133.8

Sources: Retail Price of Regular Grade Gasoline, Platt's Oil Price Handbook and Oilmanac.
Price Indexes, U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 5a

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Entertainment(2)
		Cents per Gallon				Index: 1967 = 100		
1975	45.44	11.77	57.22	161.2	175.4	137.3	142.3	144.4
1976	47.44	12.03	59.47	170.5	180.8	144.7	147.6	151.2
1977	50.70	12.37	63.07	181.5(1)	192.2	153.3	154.2	157.9
1978	53.09	12.62	65.71	195.4	211.4	164.0	159.6	176.6
1979	74.33	13.46	87.79	217.4	234.5	176.0	166.6	188.5
1980	107.35	14.37	121.72	246.8	254.6	191.6	178.4	205.3
1981	N.A.	N.A.	131.10	272.3	274.6	208.2	186.9	221.4
1982	N.A.	N.A.	122.20	289.1	285.7	224.0	191.8	235.8
1983	95.36	20.34	115.70	298.4	291.7	236.9	196.5	246.0
1984	100.36	20.84	121.20	311.1	302.9	249.3	200.2	255.1

(1) Beginning in July, 1978, the CPI was given in two forms, CPI-U & CPI-W. The index used above is the CPI-U.
(2) Represented "Reading and Recreation" prior to July 1978.
N.A. Not available

Source: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-80 retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
1981-1984 -- retail price of regular grade gasoline, Bureau of Labor Statistics
Price indexes, U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 6

U.S. ANNUAL AVERAGE RETAIL PRICE OF #2 HOME HEATING OIL

Year	Cost per Gallon(1) (current cents)	Consumer Price Index (1967 = 100)	Cost Per Gallon (1967 constant cents)
1956(2)	15.21	81.4	18.69
1957	15.98	84.3	18.96
1958	15.07	86.6	17.40
1959	15.29	87.3	17.51
1960	15.02	88.7	16.93
1961	15.62	89.6	17.43
1962	15.62	90.6	17.24
1963	15.97	91.7	17.42
1964	16.06	92.9	17.29
1965	16.04	94.5	16.97
1966	16.43	97.2	16.90
1967	16.91	100.0	16.91
1968	17.44	104.2	16.74
1969	17.82	109.8	16.23
1970	18.48	116.3	15.89
1971	19.63	121.3	16.18
1972	19.72	125.3	15.74
1973	22.75	133.1	17.09
1974	36.01	147.7	24.38
1975	38.98	161.2	24.18
1976	41.80	170.5	24.52
1977	47.37	181.5	26.10
1978	50.80(e)	195.4	26.00
1979	72.80	217.4	33.49
1980	100.97	246.8	40.91
1981	124.66	272.4	45.76
1982	120.86	289.1	41.81
1983	110.12	298.4	36.90

(e) Estimate
(1) Includes all applicable taxes
(2) Data prior to 1956 is not available on a comparable basis

Source: U.S. Department of Labor, Bureau of Labor Statistics
BLS Monthly prices averaged by API to derive annual average price

Section VI
Table 7

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

Year	VALUE (Thousand dollars)		PRODUCTION (Trillion BTU)		PRICE AT WELLHEAD (Cents per million BTU)		PRICE AT WELLHEAD (1967 constant cents per million BTU)	
	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1947	$3,577,890	$274,709	10,771	5,012	33.2	5.5	43.4	7.2
1948	5,245,080	333,173	11,717	5,615	44.8	5.9	54.1	7.1
1949	4,674,770	344,034	10,683	5,911	43.8	5.8	55.7	7.4
1950	4,963,380	408,521	11,449	6,841	43.4	6.0	53.1	7.3
1951	5,690,410	542,964	13,037	8,106	43.6	6.7	47.9	7.4
1952	5,785,230	623,649	13,282	8,705	43.6	7.2	49.2	8.1
1953	6,327,100	774,966	13,671	9,116	46.3	8.5	53.0	9.7
1954	6,424,930	882,501	13,427	9,488	47.9	9.3	54.7	10.6
1955	6,870,380	978,357	14,445	10,532	47.6	9.3	54.2	10.6
1956	7,296,760	1,083,812	15,344	11,252	47.6	9.6	52.5	10.6
1957	8,079,259	1,201,759	15,346	11,885	52.6	10.1	56.4	10.8
1958	7,379,973	1,317,521	14,154	12,244	52.1	10.8	55.1	11.4
1959	7,473,336	1,556,800	14,662	13,361	51.0	11.7	53.8	12.3
1960	7,420,181	1,789,970	14,664	14,135	50.6	12.7	53.3	13.4
1961	7,565,582	1,996,241	15,185	14,691	49.8	13.6	52.7	14.4
1962	7,774,051	2,145,301	15,495	15,365	50.2	14.0	53.0	14.8
1963	7,965,743	2,328,030	15,741	16,271	50.6	14.3	53.5	15.1
1964	8,017,078	2,387,689	15,691	17,138	51.1	13.9	54.0	14.7
1965	8,158,298	2,494,542	15,930	17,652	51.2	14.1	53.0	14.6
1966	8,726,423	2,702,759	16,925	18,984	51.6	14.2	51.7	14.2
1967	9,375,727	2,898,741	18,100	20,087	51.8	14.4	51.3	14.4
1968	9,794,826	3,168,688	18,593	21,548	52.7	14.7	51.4	14.3
1969	10,426,680	3,455,615	18,886	22,838	55.2	15.1	51.8	14.2
1970	11,173,726	3,745,680	20,401	24,154	54.8	15.5	49.6	14.0
1971	11,692,998	4,085,482	20,033	24,805	58.4	16.5	51.3	14.5
1972	11,706,510	4,180,462	20,041	24,792	58.4	16.9	49.0	14.2
1973	13,057,905	4,894,072	19,493	24,746	67.0	19.8	49.7	14.7
1974	21,580,549	6,573,402	18,575	23,689	116.2	27.7	72.6	17.3

Sources: Dollar value and production, U.S. Bureau of Mines
U.S. Bureau of Labor Statistics, Wholesale Price Index
Price at wellhead computed by the American Petroleum Institute

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

	VALUE (Thousand dollars)		PRODUCTION (Trillion BTU)		PRICE AT WELLHEAD (Cents per million BTU)		PRICE AT WELLHEAD (1967 constant cents per million BTU)	
Year	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1975	$23,116,059	$ 8,945,062	17,729	20,531	130.4	43.6	74.5	24.9
1976	24,229,540	11,571,776	17,262	20,371	140.4	56.8	76.7	31.0
1977	25,790,722	15,824,954	17,454	20,025	147.8	77.4	76.1	39.9
1978	28,477,824	18,084,914	18,420	20,393	154.4	88.7	73.8	42.4
1979	39,051,332	24,113,634	18,064	20,901	216.7	115.4	92.0	49.0
1980	65,722,016	32,043,704	18,249	20,482	360.2	156.4	134.1	58.2
1981	99,396,384(1)	39,551,253	18,147	20,255	547.8	190.3	186.7	64.9
1982	90,029,512(1)	45,496,765	18,309	18,797	491.7	242.0	164.3	80.9
1983	82,745,734(1)	41,846,600	18,325	16,419	451.5	254.9	149.0	84.1

(1) Estimate computed by API based on wellhead price times production.

Sources: Dollar value and production, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Price at wellhead computed by the American Petroleum Institute

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	$2.90
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	$1.58	2.20
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	$1.82	$2.48	$2.48	$2.46	$2.48	$2.46	$2.60	$2.73	$2.71	$2.69	$2.92	$2.82	$2.77	$2.77
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1.94	2.58	2.58	2.52	2.47	2.25	2.18	2.20	2.26	2.58	2.70	2.65	2.56	2.41
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85
New York	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64
North Dakota	-	-	-	-	-	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96
Utah	-	-	-	-	-	-	-	-	-	-	2.27	2.99	2.86	2.74
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51
Other	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.91	2.93	2.94	2.45
Total	1.93	2.60	2.54	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90	2.88

Source: U.S. Bureau of Mines. Annual Petroleum Statements

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	$2.75	$2.59	$2.59	$2.60	$2.61	$2.60	$2.65	$2.67	$2.70	$2.84	$3.00	$3.07	$3.58	$8.54	$10.13	$10.57	9.67	10.77	14.94	20.57
Alaska	2.79	3.04	3.04	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03	5.84	6.02	10.74	15.63
Arizona	-	-	-	-	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29	12.30
Arkansas	2.75	2.66	2.66	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	12.94	14.73	24.17
California	2.43	2.50	2.48	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	7.22	12.60	22.72
Colorado	2.88	2.88	2.88	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	9.92	13.14	20.69
Florida	-	-	-	-	-	-	-	-	-	-	-	3.18	4.59	9.66	11.71	11.24	11.67	12.00	13.07	18.84
Illinois	2.99	2.98	2.98	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.80	23.49	35.36
Indiana	2.98	2.98	2.96	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.29	23.56	35.15
Kansas	2.89	2.91	2.91	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	22.00	34.21
Kentucky	2.97	2.95	2.92	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.58	34.98
Louisiana	3.15	3.15	3.12	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.42	11.40	19.38
Michigan	2.92	2.85	2.85	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	12.34	14.94	21.55
Mississippi	2.82	2.78	2.76	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	8.11	13.95	15.80
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Montana	2.42	2.42	2.44	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.25	12.39	22.24
Nebraska	2.85	2.83	2.83	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	16.75	30.49
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	2.86	2.88	2.88	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.01	14.06	23.82
New York	4.76	4.60	4.59	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	14.74	23.78	37.39
North Dakota	2.72	2.75	2.73	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	8.55	12.00	14.99
Ohio	3.09	3.10	3.15	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.81	22.52	36.23
Oklahoma	2.91	2.92	2.91	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	10.90	15.03	27.[illegible]
Pennsylvania	4.71	4.57	4.56	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.77	24.09	37.44
South Dakota	-	-	-	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.13	25.28	28.75
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.51	13.72	13.75	12.70	20.26	34.29
Texas	2.97	2.99	2.97	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.62	21.59
Utah	2.75	2.74	2.72	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41	19.80
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	4.14	4.00	3.99	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.50	28.00	37.00
Wyoming	2.50	2.49	2.50	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	8.50	21.37
Other	2.31	2.10	2.06	2.14	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	8.72	6.33	11.22	10.98	9.82	12.41	19.14
Total	2.89	2.90	2.89	2.88	2.86	2.88	2.92	2.94	3.09	3.18	3.39	3.39	3.89	6.74	7.56	8.14	8.57	8.96	12.51	20.89

(1) Included with other

Source: U.S. Bureau of Mines. Annual Petroleum Statements

Section VI
Table 9

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	-	-	-	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3
Alaska	-	-	-	-	-	-	-	-	-	-	-	12.0	12.0	12.2
Arizona	-	-	-	-	-	-	-	-	-	14.0	-	-	-	-
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1
Maryland	-	-	-	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	-	-	25.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1
Nebraska	-	-	-	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8
South Dakota	6.0	6.5	6.3	-	5.0	5.0	5.0	5.0	-	-	-	-	-	-
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0
Total	6.0	6.5	6.3	6.5	7.3	7.8	9.2	10.1	10.4	10.8	11.3	11.9	12.9	14.0

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

Section VI
Table 9a

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	7.4	9.8	11.8	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5
Alaska	20.4	21.4	24.7	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9
Arizona	-	11.9	12.1	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2
Arkansas	13.5	14.9	15.5	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0
California	28.3	29.0	29.3	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0
Colorado	11.6	11.6	11.7	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0
Florida	18.9	20.7	20.0	13.5	12.9	14.2	14.8	15.2	15.7	-	29.9	32.0	34.3	53.6	97.3	98.2
Illinois	12.8	14.3	12.9	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5
Indiana	20.1	21.1	23.4	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0
Kansas	12.5	12.4	13.3	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0
Kentucky	24.8	24.8	23.9	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0
Louisiana	18.7	19.7	19.8	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0
Maryland	27.2	27.0	26.9	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3
Michigan	21.1	21.3	27.1	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5
Mississippi	18.6	19.0	18.0	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0
Missouri	24.7	25.0	27.0	24.3	24.5	-	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5
Montana	7.4	7.4	7.5	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5
Nebraska	16.7	18.2	18.8	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3
New Mexico	10.9	11.5	11.9	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5
New York	29.5	28.1	29.5	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0
North Dakota	12.6	13.7	19.1	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0
Ohio	24.9	25.6	24.2	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8
Oklahoma	12.1	12.8	13.0	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2
Pennsylvania	29.4	27.2	26.0	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5
Tennessee	18.3	18.5	18.9	19.5	19.0	-	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0
Texas	12.3	12.3	12.5	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8
Utah	15.7	16.8	18.2	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5
Virginia	27.1	27.1	23.4	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0
West Virginia	27.4	27.5	26.6	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0
Wyoming	12.5	14.6	14.2	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0
Total	15.1	15.5	15.8	15.4	15.6	15.7	16.0	16.4	16.7	17.1	18.2	18.6	21.6	30.4	44.5	58.0

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

Section VI
Table 9b

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1977	1978	1979	1980	1981	1982	1983
Alabama	147.0	150.0	203.9	318.6	477.0	344.0	428.0
Alaska	40.2	52.1	51.8	73.2	62.0	63.0	73.0
Arizona	33.5	37.0	41.3	NA	NA	259.0	308.0
Arkansas	58.5	75.0	95.9	69.6	181.0	213.0	229.0
California	116.9	135.7	170.5	217.0	257.0	309.0	357.0
Colorado	81.0	84.0	141.0	147.0	197.0	317.0	338.0
Florida	108.9	139.0	157.2	173.0	271.0	246.0	233.0
Illinois	120.0	129.0	186.1	190.0	247.0	262.0	284.0
Indiana	69.0	71.0	105.4	135.0	208.0	155.0	209.0
Kansas	48.5	57.0	75.6	77.2	92.0	151.0	157.0
Kentucky	55.0	58.0	94.7	89.3	101.0	152.0	151.0
Louisiana	70.3	83.6	111.5	160.7	207.0	260.0	267.0
Maryland	39.0	61.4	103.6	45.6	48.0	78.0	55.0
Michigan	101.0	119.7	174.0	235.5	286.0	319.0	358.0
Mississippi	73.0	114.6	160.0	231.7	321.0	391.0	378.0
Missouri	42.0	—	—	—	—	—	—
Montana	71.9	84.7	121.1	145.4	191.0	215.0	241.0
Nebraska	65.2	68.0	85.0	82.9	145.0	199.0	293.0
New Mexico	81.0	98.8	136.6	175.8	213.0	247.0	268.0
New York	116.0	119.0	126.6	194.9	267.0	375.0	385.0
North Dakota	35.3	46.2	128.0	118.8	194.0	230.0	227.0
Ohio	139.7	157.0	180.5	197.7	217.0	271.0	324.0
Oklahoma	79.0	90.2	112.4	150.7	188.0	274.0	283.0
Oregon	—	—	213.0	240.0	260.0	333.0	333.0
Pennsylvania	80.0	86.0	132.6	212.7	233.0	280.0	300.0
South Dakota	—	—	210.7	NA	275.0	308.0	337.0
Tennessee	74.0	164.0	170.0	176.0	255.0	300.0	250.0
Texas	90.3	99.5	123.4	156.5	187.0	217.0	236.0
Utah	61.2	64.3	71.6	111.7	110.0	306.0	340.0
Virginia	126.0	131.3	168.1	285.0	215.0	369.0	330.0
West Virginia	61.0	65.8	105.0	300.0	300.0	320.0	310.0
Wyoming	64.0	79.3	113.0	192.0	277.0	322.0	318.0
Total	79.0	90.5	117.8	159.0	198.0	246.0	259.0

Source: U.S. Energy Information Administraton, Natural Gas Annuals

Section VI
Table 10

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)
Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

CRUDE &		1970	1971(1)	1972	1973(1)				1974			1975		1977	
GRAVITY		31 Aug	15 Feb	20 Jan	1 Jan	1 Oct	16 Oct	1 Nov	1 Jan	1 July	1 Nov	1 Jan	1 Oct	1 Jan	1 July
						PERSIAN/ARABIAN GULF CRUDES									
Saudi Arabia															
Arab Light	34°	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66
Arab Berri	39	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22
Arab Medium	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25
Arab Heavy	27	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92
Iran															
Iran Light	34	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77
Iran Heavy	31	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43
Kuwait															
Kuwait	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	NA	NA
Abu Dhabi															
Murban	39	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26
Marine (Umm Shaif)	37	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.02
Zakum	40	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16
Iraq															
Basrah	35	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	NA	NA
Qatar															
Dukhan	40	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18
Marine	36	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.98	13.98
Oman															
Oman	34	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98
						MEDITERRANEAN & AFRICAN CRUDES									
Saudi Arabia															
Arab Light	34	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	NA	NA
Iraq															
Kirkuk	36	2.21	2.41	3.40	3.48	4.24	7.21	7.29	NA	NA	NA	NA	NA	NA	NA
Libya															
Libya	40	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.06	18.25	18.78
Nigeria															
Nigeria	34	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	NA	NA
						VENEZUELAN CRUDES (Reference Prices)									
Venezuela															
Tia Juana	26	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	NA	NA
Tia Juana	31	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	NA	NA
Oficina	35	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	NA	NA

NA Not Available

(1) Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.

Source: Petroleum Intelligence Weekly

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)
Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

PERSIAN/ARABIAN GULF CRUDES

CRUDE & GRAVITY		1979 1 Jan
Saudi Arabia		
Arab Light	34°	14.34
Arab Berri	39	14.93
Arab Medium	31	13.91
Arab Heavy	27	13.57
Iran		
Iran Light	34	14.45
Iran Heavy	31	14.10
Kuwait		
Kuwait	31	NA
Abu Dhabi		
Murban	39	14.97
Marine (Umm Shaif)	37	14.72
Zakum	40	14.87
Iraq		
Basrah	35	NA
Qatar		
Dukhan	40	14.89
Marine	36	14.68
Oman		
Oman	34	14.68

NOTE:
Posted prices are no longer available

MEDITERRANEAN & AFRICAN CRUDES

CRUDE & GRAVITY		1979 1 Jan
Saudi Arabia		
Arab Light	34	NA
Iraq		
Kirkuk	36	NA
Libya		
Libya	40	19.72
Nigeria		
Nigeria	34	NA

VENEZUELAN CRUDES (Reference Prices)

CRUDE & GRAVITY		1979 1 Jan
Venezuela		
Tia Juana	26	NA
Tia Juana	31	NA
Oficina	35	NA

NA Not Available

Source: Petroleum Intelligence Weekly

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1974				1975		1976			1977	
		1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July
PERSIAN / ARABIAN CRUDES												
Saudi Arabia												
Arab Light	34°	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70
Arab Berri	39	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22
Arab Medium	31	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32
Arab Heavy	27	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02
Iran												
Iran Light	34	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81
Iran Heavy	31	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49
Kuwait												
Kuwait	31	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27
Abu Dhabi												
Murban	39	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26
Umm Shaif	37	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04
Zakum	40	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17
Iraq												
Basrah	35	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46[e]	12.65[e]	12.65[e]
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60[e]	11.65	11.70[e]	12.89[e]	12.85[e]
Qatar												
Dukhan	40	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19
Marine	36	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00
Oman												
Oman	34	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70[e]	12.74	13.00
MEDITERRANEAN AND AFRICAN CRUDES												
Iraq												
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	10.67	11.74[e]	11.95[e]	N.A.	N.A.	N.A.	13.50
Libya												
Brega	40	N.A.	N.A.	N.A.	N.A.	11.20	12.32	12.32	12.32	12.62	13.92	14.20
Nigeria												
Bonny	37	N.A.	N.A.	N.A.	N.A.	11.43	12.60	12.84	12.89	13.10	14.33	14.63
OTHER CRUDES												
Indonesia												
Sumatra Light	35	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55
Venezuela												
Tia Juana	26	N.A.	N.A.	N.A.	N.A.	11.62	11.39	11.12	11.22	11.65	12.72	12.71
Tia Juana	31	N.A.	N.A.	N.A.	N.A.	11.05	12.06	12.30	12.30	12.30	12.35	13.54
Oficina	35	N.A.	N.A.	N.A.	N.A.	11.49	12.54	12.80	12.80	12.80	13.99(2)	N.A.
Ecuador												
Oriente	30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60	11.60	13.00	13.00

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[e] Estimates by PIW
N.A. Not available

(1) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining and equity interest in Middle East oil producing ventures.

(2) Estimate by Petroleum Economist, October 1977

Source: Petroleum Intelligence Weekly

Section VI
Table 11a

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1979			1980		1981		1982	1983	1985
		1 Jan.	1 Apr.	1 July	1 Jan.	1 June	19 Feb.	1 Nov.	1 Jan.	Mar.	Feb.
PERSIAN / ARABIAN CRUDES											
Saudi Arabia											
Arab Light	34°	13.34	14.55	18.00	26.00	28.00	32.00	34.00	34.00	29.00	28.00
Arab Berri	39	14.06	16.47	21.32	27.52	29.52	33.52	35.60	35.40	29.50	28.11
Arab Medium	31	12.89	14.05	17.54	25.45	27.45	31.45	33.00	32.40	27.40	27.40
Arab Heavy	27	12.51	13.64	17.17	25.00	27.00	31.00	31.50	31.00	26.00	26.50
Iran											
Iran Light	34	13.45	16.57	22.00(e)	28.50	35.37	37.00	34.60	34.20	28.00(e)	28.05
Iran Heavy	31	13.06	16.04	19.90(e)	27.77	34.37	36.00	33.40	32.30	27.30(e)	27.35
Kuwait											
Kuwait	31	12.83	15.80	19.49	25.50	29.50	35.50	33.00	32.30	27.30	27.30
Abu Dhabi											
Murban	39	14.10	17.10	21.56	27.56	31.56	36.56	35.70	35.50	29.56	28.15
Umm Shaif	37	13.78	16.88	21.36	27.36	31.36	36.36	35.50	35.30	29.36	28.05
Zakum	40	14.01	17.01	21.46	27.46	31.46	36.46	35.60	35.40	29.46	28.10
Iraq											
Basrah Light	35	13.29	15.70	19.96	25.96	29.96	35.96	34.67	32.65(e)	28.46(e)	
Kirkuk	36	13.52	15.95	21.25	26.18	30.18	37.50	35.11	34.93	29.83	
Qatar											
Dukhan	44	14.03	17.04	21.42	27.42	31.42	37.42	35.65	35.45	29.49	28.10
Marine	36	13.77	16.85	21.23	27.23	31.23	37.23	35.50	35.30	29.30	28.05
Oman											
Oman	36	13.65(e)	14.88(e)	N.A.	30.26	35.56	37.56	34.06	35.06	30.06	
MEDITERRANEAN AND AFRICAN CRUDES											
Libya											
Brega	40	14.69	18.25	23.45	34.67	36.67	41.00	37.50	37.00	30.50	
Nigeria											
Bonny	37	14.80	18.50	23.49	29.99	36.71	40.02	36.52	36.52	30.00	28.67
OTHER CRUDES											
Indonesia											
Sumatra Light	34	14.23(e)	15.51(e)	N.A.	27.50	31.50	35.00	35.00	35.00	29.53	28.53
Venezuela											
Tia Juana	26	13.36	15.76	19.31	25.20	29.28	32.88	32.88	32.88	27.88	27.60
Tia Juana	31	14.22	16.70	20.90	26.90	32.40	36.00	35.00	35.00	29.84	28.24
Oficina	34	14.69	17.21	22.45	28.75	34.25	38.06	37.06	37.06	31.09	28.80
Ecuador											
Oriente	30	13.18	20.60	N.A.	31.00	N.A.	39.30(e)	33.15	33.25	28.25	

(e) Estimate

(1) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining an equity interest in Middle East oil producing ventures. Some prices are retroactive to prior dates.

N.A. Not available

Source: Petroleum Intelligence Weekly

Section VI
Table 12

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Cents per gallon)

	1920	1930	1940	1950	1960	1970	1971	1972	1973	1974	1975	1976	1977
Average U.S.	29.83	19.95	18.41	26.76	31.13	35.69	36.43	36.13	38.82	52.41	57.22	59.47	63.07
Alabama, Birmingham	30.04	20.50	21.71	29.33	31.23	35.23	35.62	36.79	38.57	51.67	53.15	58.25	64.00
Arizona, Phoenix	32.50	20.71	21.25	26.47	26.57	35.07	35.90	35.40	38.28	51.32	57.73	60.48	63.65
Arkansas, Little Rock	30.42	17.63	20.83	29.17	29.48	34.32	35.57	34.65	36.98	50.66	57.34	60.32	64.40
California, Los Angeles	-	-	-	-	29.57	34.15	35.32	34.47	38.04	52.28	57.88	60.49	64.23
California, San Francisco	24.17	20.00	17.88	25.12	32.23	35.82	35.82	35.30	39.07	53.30	59.46	61.49	65.15
Colorado, Denver	31.42	19.50	18.38	26.46	33.40	33.73	36.48	35.15	38.87	52.25	58.18	61.23	64.07
Connecticut, Hartford	33.00	19.13	14.48	23.63	29.32	36.98	37.82	37.65	40.98	54.63	57.57	59.99	63.83
District of Columbia	29.46	17.23	15.08	25.36	30.32	35.73	36.05	37.65	39.07	54.33	58.48	60.40	64.31
Florida, Miami[2]	29.25	21.50	19.33	28.03	31.40	35.07	34.65	35.98	38.15	51.31	54.98	57.15	58.82
Georgia, Atlanta	30.04	22.17	20.42	29.71	31.87	35.01	36.23	36.15	38.57	52.59	58.23	58.99	63.65
Idaho, Boise	33.63	26.41	24.18	30.65	37.42	35.07	34.98	35.11	39.95	53.34	59.82	62.22	65.48
Illinois, Chicago	27.17	18.17	15.58	23.30	31.90	38.62	37.60	36.36	40.61	54.74	58.60	60.90	65.74
Indiana, Indianapolis	-	-	-	-	30.73	37.23	37.57	35.56	39.26	53.17	59.08	59.70	62.74
Iowa, Des Moines	27.42	18.33	16.78	25.08	31.57	35.32	36.32	37.23	38.45	51.17	57.32	60.33	64.79
Kansas, Wichita	26.80	15.30	14.99	24.70	29.15	32.98	32.98	32.40	37.78	51.17	57.32	61.33	63.49
Kentucky, Louisville	-	-	-	-	32.80	36.65	37.48	37.28	40.31	53.83	58.20	61.25	64.90
Louisiana, New Orleans	27.75	15.17	20.66	30.17	29.07	35.73	35.57	34.06	36.48	49.74	56.09	60.40	63.74
Maryland, Baltimore	29.58	18.77	17.88	25.74	31.65	35.65	36.07	37.65	39.23	51.21	56.70	58.48	62.46
Massachusetts, Boston	32.63	17.96	14.19	24.18	26.98	35.73	36.57	35.98	39.07	52.40	55.98	58.23	61.16
Michigan, Detroit	28.12	18.28	15.53	25.17	30.93	33.82	34.35	34.23	39.53	53.86	59.42	57.65	62.07
Mississippi, Jackson	-	-	-	-	32.23	35.48	37.52	34.91	38.48	52.09	54.17	57.15	62.29
Missouri, St. Louis	27.58	17.07	16.43	23.04	27.15	34.07	36.15	35.65	39.20	52.17	57.65	59.48	63.40
Montana, Great Falls	-	-	-	-	36.90	36.36	36.57	35.23	39.95	53.17	59.42	60.85	65.44
Nebraska, Omaha	27.25	20.08	17.97	26.75	32.53	37.82	37.40	37.48	40.03	53.17	59.40	63.15	66.15
New Hampshire, Manchester	32.04	21.12	16.02	24.97	30.07	36.40	38.23	37.65	40.07	54.48	56.48	59.40	62.98
New Jersey, Newark	29.88	17.12	15.78	23.18	28.32	37.40	38.07	36.32	38.57	52.30	54.73	55.65	59.40
New Mexico, Albuquerque	32.25	21.00	19.92	30.25	32.90	36.73	36.90	36.48	38.29	52.65	58.98	59.53	63.59
New York, Buffalo	30.92	18.07	16.30	26.15	27.92	36.11	36.28	37.15	40.07	55.38	58.65	61.37	64.61
New York, New York	31.92	17.36	16.11	26.50	31.40	36.93	39.18	44.56	43.73	59.75	61.15	61.81	64.31
North Carolina, Charlotte	31.33	20.94	20.32	29.37	31.03	35.32	37.36	37.31	39.32	51.99	56.76	60.42	61.95
Ohio, Cincinnati	-	-	-	-	31.40	36.65	37.90	37.90	38.65	53.36	57.19	57.23	60.65
Ohio, Cleveland	-	-	-	-	32.32	36.65	37.90	37.80	38.65	53.36	57.19	57.23	60.40
Oklahoma, Tulsa	27.75	19.25	14.58	26.75	30.48	35.07	35.07	34.73	37.53	50.33	56.44	59.46	63.74
Oregon, Portland	26.79	20.96	20.38	27.98	33.65	35.32	35.82	35.48	38.39	51.70	55.50	57.23	61.49
Pennsylvania, Philadelphia	32.00	20.58	15.49	25.19	28.48	36.48	37.23	36.74	37.90	52.88	53.90	56.73	61.40
Rhode Island, Providence	32.63	17.48	14.66	24.08	27.06	36.23	36.90	36.15	38.32	52.57	55.90	58.57	62.15
South Carolina, Charleston	29.17	20.86	20.10	28.07	30.94	34.32	35.73	36.65	38.40	52.88	54.39	57.90	61.23
Tennessee, Memphis	29.00	19.04	22.22	28.22	29.65	35.57	35.48	35.48	37.48	50.51	57.17	59.65	64.07
Texas, Dallas	-	-	-	-	29.23	32.73	33.90	33.15	34.37	47.17	53.53	56.40	59.90
Texas, El Paso	-	-	-	-	28.88	34.73	36.90	35.90	36.29	47.98	55.95	57.40	60.65
Texas, Houston	29.13	18.83	17.17	24.00	29.32	32.23	32.82	32.34	33.90	47.28	52.40	56.40	60.15
Utah, Salt Lake City	31.88	22.67	19.88	24.42	30.90	34.32	34.98	35.56	37.37	50.17	56.32	58.45	60.94
Virginia, Norfolk	30.08	19.86	20.38	27.33	31.23	35.57	35.23	36.90	39.48	52.73	56.23	60.07	63.98
Washington, Seattle	-	-	-	-	29.57	36.40	36.73	36.35	39.42	52.22	57.18	59.98	64.23
Washington, Spokane	28.92	23.83	21.92	30.63	36.73	36.40	36.57	35.95	39.07	52.72	56.68	60.13	63.87
West Virginia, Charleston	30.33	20.46	20.68	29.23	31.32	35.73	37.73	38.40	39.56	51.23	57.57	59.07	63.14
Wisconsin, Milwaukee	27.35	17.43	19.15	24.90	30.98	33.15	34.48	[illegible]	38.37	52.13	58.15	58.40	61.40

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(1) Regular grade gasoline at full service stations, retail price including tax.
(2) Prices prior to 1970 are for Jacksonville.

Source: Data for 1920-1950, Texaco Inc.: 1960-1977, Platt's Oilgram Price Service
Note: The list of selected cities has been changed.

Section VI
Table 12a

AVERAGE U.S. RETAIL GASOLINE PRICES(1) FOR SELECTED CITIES
(Dollars per Gallon)

Area(2)	1978 Leaded	1978 Unleaded	1979 Leaded	1979 Unleaded	1980 Leaded	1980 Unleaded	1981 Leaded	1981 Unleaded	1982 Leaded	1982 Unleaded	1983 Leaded	1983 Unleaded
U.S. City Average	.627	.670	.857	.903	1.191	1.245	1.311	1.378	1.222	1.296	1.157	1.241
Anchorage, Alaska	.744	.767	.921	.952	1.241	1.275	1.408	1.465	1.380	1.446	1.253	1.339
Atlanta, Ga.	.624	.668	.843	.890	1.197	1.251	1.328	1.397	1.234	1.319	1.143	1.248
Baltimore Md.	.613	.666	.844	.891	1.204	1.251	1.334	1.389	1.288	1.335	1.244	1.296
Boston, Ma.	.623	.660	.857	.899	1.199	1.241	1.337	1.391	1.234	1.283	1.155	1.225
Buffalo, NY.	.644	.687	.899	.948	1.235	1.280	1.336	1.394	1.248	1.306	1.222	1.288
Chicago Ill-NW Ind.	.680	.730	.925	.979	1.246	1.304	1.344	1.410	1.264	1.321	1.223	1.298
Cincinnati, Oh-Ky-Ind.	.618	.655	.842	.882	1.154	1.206	1.275	1.345	1.217	1.293	1.187	1.257
Cleveland, Oh	.621	.665	.839	.884	1.160	1.203	1.304	1.385	1.269	1.327	1.175	1.248
Dallas-Ft Worth, Tx	.579	.617	.789	.833	1.132	1.186	1.245	1.307	1.140	1.209	1.081	1.158
Denver-Boulder, Colo.	.612	.663	.838	.886	1.150	1.217	1.259	1.330	1.197	1.273	1.091	1.197
Detroit, Mich.	.643	.696	.891	.947	1.242	1.303	1.335	1.395	1.247	1.304	1.227	1.280
Honolulu, Hawaii	.759	.764	.937	.976	1.298	1.355	1.409	1.567	1.472	1.542	1.400	1.462
Houston, Tx	.567	.613	.794	.835	1.139	1.183	1.261	1.313	1.143	1.212	1.040	1.132
Kansas City, Mo-Kn	.604	.644	.843	.886	1.137	1.190	1.237	1.298	1.195	1.262	1.155	1.226
Los Angeles, Long Beach, Anaheim, Ca.	.644	.691	.892	.943	1.213	1.271	1.337	1.409	1.232	1.318	1.166	1.215
Miami, Fla	.611	.661	.841	.892	1.186	1.235	1.319	1.389	1.257	1.364	1.207	1.326
Milwaukee, Wisc	.595	.631	.819	.864	1.139	1.198	1.273	1.329	1.245	1.286	1.190	1.224
Minneapolis, St. Paul, Minn-Wisc.	.618	.654	.860	.901	1.175	1.231	1.294	1.360	1.253	1.328	1.211	1.284
New York, NY-NE N.J.	.632	.675	.882	.927	1.241	1.286	1.355	1.413	1.249	1.319	1.181	1.257
NE Penn	.610	.650	.837	.879	1.178	1.218	1.306	1.353	1.197	1.242	1.157	1.208
Philadelphia,Pa-NJ.	.618	.658	.855	.904	1.192	1.233	1.309	1.365	1.188	1.255	1.149	1.210
Pittsburgh, Pa.	.628	.663	.857	.893	1.205	1.242	1.356	1.409	1.234	1.312	1.147	1.233
Portland, Ore-Wash	.636	.681	.870	.907	1.193	1.226	1.317	1.381	1.257	1.337	1.121	1.230
St. Louis, Mo-Ill.	.607	.656	.851	.897	1.145	1.208	1.230	1.299	1.151	1.213	1.111	1.164
San Diego, Ca.	.636	.691	.881	.932	1.215	1.280	1.323	1.408	1.240	1.339	1.157	1.253
San Fran-Oakland, Ca.	.661	.717	.899	.961	1.243	1.310	1.355	1.436	1.260	1.353	1.154	1.290
Seattle-Everett, Wash.	.650	.677	.877	.917	1.211	1.253	1.335	1.401	1.227	1.271	1.145	1.182
Washington, DC-Md-Va.	.651	.702	.853	.906	1.224	1.276	1.334	1.393	1.256	1.304	1.232	1.288
Region (3)												
Northeast	.631	.672	.870	.913	1.220	1.260	1.344	1.396	1.238	1.298	1.181	1.248
North Central	.628	.671	.861	.910	1.183	1.244	1.303	1.370	1.233	1.298	1.191	1.261
South	.611	.654	.831	.863	1.172	1.223	1.293	1.360	1.196	1.272	1.132	1.217
West	.643	.695	.879	.936	1.201	1.267	1.323	1.405	1.233	1.325	1.132	1.238

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(1) Regular grade gasoline - leaded and unleaded
(2) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are are the more extensive Standard Consolidated Areas.
(3) Regions are defined as the four Census regions.

SOURCE: U.S. Bureau of Labor Statistics

Section VI
Table 12b

AVERAGE U.S. RETAIL GASOLINE PRICES(1) FOR SELECTED CITIES
(Dollars per Gallon)

	1984	
Area(2)	**Leaded**	**Unleaded**
U.S. City Average	1.129	1.212
Anchorage, Alaska	1.204	1.294
Atlanta, Ga.	1.110	1.225
Baltimore, Md.	1.092	1.164
Boston, Ma.	1.078	1.175
Buffalo, N.Y.	1.174	1.249
Chicago, Ill-NW Ind.	1.206	1.284
Cincinnati, Oh-Ky-Ind.	1.153	1.218
Cleveland, Oh.	1.130	1.214
Dallas-Ft. Worth, Tx.	1.072	1.163
Denver-Boulder, Co.	1.049	1.164
Detroit, Mi.	1.236	1.278
Honolulu, Ha.	1.368	1.443
Houston, Tx.	1.015	1.116
Kansas City, Mo-Kn.	1.082	1.142
Los Angeles, Long Beach, Anaheim, Ca.	1.102	1.211
Miami, Fl.	1.126	1.215
Milwaukee, Wi.	1.147	1.202
Minneapolis, St. Paul, Mn-Wi.	1.171	1.223
New York, NY-NE N.J.	1.116	1.189
NE Pa.	1.137	1.204
Philadelphia, Pa-N.J.	1.141	1.213
Pittsburgh, Pa.	1.147	1.238
Portland, Or-Wa.	1.116	1.222
St. Louis, Mo-Ill.	1.086	1.142
San Diego, Ca.	1.162	1.212
San Fran-Oakland, Ca.	1.156	1.302
Seattle-Everett, Wa.	1.178	1.217
Washington, D.C.-Md-Va.	1.203	1.302
Region(3)		
Northeast	1.133	1.204
North Central	1.157	1.233
South	1.105	1.192
West	1.123	1.220

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(1) Regular grade gasoline--leaded and unleaded.
(2) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are the more extensive Standard Consolidated Areas.
(3) Regions are defined as the four Census Regions.

SOURCE: U.S. Bureau of Labor Statistics

Section VI
Table 13

AVERAGE PRICE OF NATURAL GAS CONSUMED BY END USE SECTOR
(Dollars per Thousand Cubic Feet)

Year	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers					Total Consumption
			Residential	Commercial[1]	Industrial	Electric Utilities	Total	
1967	0.15	0.20	1.04	0.74	0.34	0.28	0.57	0.53
1968	0.16	0.20	1.04	0.73	0.34	0.22	0.55	0.51
1969	0.18	0.21	1.05	0.74	0.35	0.27	0.57	0.53
1970	0.18	0.21	1.09	0.77	0.37	0.29	0.59	0.55
1971	0.19	0.22	1.15	0.82	0.41	0.32	0.63	0.59
1972	0.20	0.23	1.21	0.88	0.45	0.34	0.68	0.63
1973	0.21	0.25	1.29	0.94	0.50	0.38	0.73	0.68
1974	0.51	0.30	1.46	1.07	0.67	0.51	0.89	0.84
1975	0.47	0.40	1.71	1.35	0.96	0.77	1.19	1.12
1976	0.57	0.51	1.98	1.64	1.24	0.98	1.47	1.37
1977	0.71	0.77	2.35	2.04	1.50	1.32	1.78	1.66
1978	0.79	0.90	2.56	2.23	1.70	1.48	1.98	1.85
1979	1.06	1.32	2.98	2.73	1.99	1.81	2.34	2.21
1980	1.43	1.85	3.68	3.39	2.56	2.27	2.91	2.80
1981	1.93	2.39	4.29	4.00	3.14	2.89	3.51	3.39
1982	2.23	2.97	5.17	4.82	3.87	3.48	4.32	4.15
1983	2.54	3.14	6.06	5.59	4.18	3.58	4.83	4.64

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(1) Includes deliveries to local, state and federal agencies engaged in non-manufacturing activities.

Source: U. S. Department of Energy, Natural Gas annuals.

COST OF U.S. PETROLEUM IMPORTS
(f.a.s. value)

Year	Quantity[1] (mmb)	Total Value (mm$)	Value Per Barrel
1970	1,353	$ 2,928	$ 2.16
1971	1,565	3,613	2.31
1972	1,874	4,631	2.47
1973	2,470	8,149	3.30
1974	2,411	26,073	10.81
1975	2,382	26,664	11.19
1976	2,850	34,614	12.15
1977	3,192	44,071	13.81
1978	2,903	42,188	14.12
1979	3,194	59,805	18.72
1980	2,566	78,637	30.60
1981	2,236	76,659	34.28
1982	1,921	60,458	31.48
1983	1,862	53,217	28.58
1984	2,205	56,924	28.11

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(1) Includes imports into the Strategic Petroleum Reserve and the U.S. Virgin Islands.

Source: U.S. Department of Commerce, Bureau of the Census, Summary of the
U.S. Export and Import Merchandise Trade

BASIC PETROLEUM DATA BOOK

SECTION VII. DEMAND

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ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations(1)	Total World
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	N.A.	N.A.
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	N.A.	N.A.
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	N.A.	N.A.
1953	2,776,778	163,237	328,243	3,268,258	57,147	75,196	204,607	550,652	4,155,858	N.A.	N.A.
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	N.A.	N.A.
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	N.A.	N.A.
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	386,546	836,671	5,136,104	N.A.	N.A.
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	N.A.	N.A.
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	N.A.	N.A.
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	7,229,097
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	7,818,752
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	8,424,782
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	9,097,773
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	9,835,302
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	10,573,703
1965	4,202,039	416,873	766,617	5,385,529	285,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	11,385,224
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	12,251,156
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	12,992,982
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	14,252,325
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	15,587,588
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	16,681,650
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	3,622,268	17,698,723
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	18,744,793
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	20,425,752
1974	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,599	16,755,836	3,034,212	19,790,048

(1) Excludes Cuba

N.A. Not Available

Source: 1950-1958, U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1974, U.S. Bureau of Mines, International Petroleum Annual

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations[1]	Total World
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	19,343,365
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	21,175,836
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	22,242,275
1978	6,879,017	633,868	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	22,964,248
1979	6,757,077	677,805	1,606,730	9,041,612	647,510	512,460	4,146,765	5,488,505	19,836,852	3,928,130	23,764,982
1980	6,242,445	712,602	1,823,046	8,778,093	713,334	533,262	3,269,112	5,060,316	18,354,117	4,715,544	22,069,661
1981	5,861,058	642,400	1,622,425	8,125,883	615,025	571,225	3,157,250	4,776,025	17,245,408	4,807,050	22,052,458
1982	5,582,938	571,225	1,702,725	7,856,888	636,925	593,125	3,045,925	4,571,625	16,704,488	4,812,525	21,517,013
1983	5,559,364	536,550	1,657,400	7,753,314	658,825	600,425	3,049,575	4,467,600	16,529,739	4,832,600	21,362,339
1984	5,755,575	530,700	1,659,810	7,946,085	691,740	622,200	3,167,730	4,514,610	16,942,365	4,814,730	21,757,095

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(1) Excludes Cuba

Source: 1975-1979: U.S. Department of Energy, Energy Information Administration, International Energy Annual
1981-1984: U.S. Energy Information Administration, United States; Rest of World, BP Statistical Review of the World Oil Industry

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

	PRODUCTION													
Year	Crude Oil	Lease Condensate	Natural Gas Liquids	Total Imports	Other Refinery Input(1)	Total New Supply	Unaccounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1947	5,087	(4)	362	437	2	5,888	+93	-12	5,993	- 14	6,007	69	451	5,487
1948	5,520	(4)	401	514	1	6,436	+84	- 8	6,528	+293	6,235	69	368	5,798
1949	5,046	(4)	430	646	1	6,123	+42	- 2	6,167	- 8	6,175	39	327	5,809
1950	5,407	(4)	499	850	—	6,756	+98	2	6,856	- 56	6,912	51	305	6,556
1951	6,158	(4)	561	844	1	7,564	+49	7	7,620	+101	7,519	32	422	7,065
1952	6,256	(4)	611	952	1	7,820	+20	7	7,847	+108	7,739	17	422	7,290
1953	6,458	(4)	654	1,034	1	8,147	+ 9	20	8,176	+142	8,034	24	402	7,608
1954	6,342	(4)	691	1,052	1	8,086	+ 8	23	8,117	- 29	8,146	27	355	7,764
1955	6,807	(4)	771	1,248	1	8,827	+ 9	34	8,870	—	8,870	38	368	8,464
1956	7,151	(4)	800	1,436	1	9,388	+ 8	43	9,439	+179	9,260	47	430	8,783
1957	7,170	(4)	808	1,574	1	9,553	+18	42	9,613	+167	9,446	51	568	8,827
1958	6,710	(4)	807	1,700	1	9,218	N.A.	64	9,282	140	9,422	29	275	9,118
1959(5)	7,053	(4)	879	1,780	1	9,713	N.A.	86	9,799	+ 51	9,748	11	211	9,526
1960	7,035	(4)	929	1,815	1	9,780	N.A.	146	9,926	- 83	10,009	9	202	9,798
1961	7,183	(4)	991	1,917	—	10,091	N.A.	179	10,270	+111	10,159	9	174	9,976
1962	7,332	(4)	1,021	2,082	—	10,435	N.A.	175	10,610	+ 32	10,578	9	169	10,400
1963	7,542	(4)	1,098	2,123	—	10,763	N.A.	202	10,965	+ 4	10,961	10	208	10,743
1964	7,614	(4)	1,155	2,258	—	11,027	N.A.	217	11,244	+ 10	11,234	10	201	11,023
1965	7,804	(4)	1,210	2,468	—	11,482	N.A.	220	11,702	- 8	11,710	10	187	11,513
1966	8,295	(4)	1,284	2,573	—	12,152	N.A.	246	12,398	+104	12,294	11	198	12,085
1967	8,811	(4)	1,409	2,537	—	12,757	N.A.	292	13,049	+173	12,876	9	307	12,560
1968	8,660	435	1,504	2,840	9	13,448	+20	319	13,787	+152	13,635	11	231	13,393
1969	8,778	460	1,590	3,166	11	14,005	- 7	335	14,333	- 48	14,381	12	232	14,137
1970	9,180	457	1,660	3,419	17	14,733	-21	359	15,071	+103	14,968	12	259	14,697
1971	9,032	430	1,694	3,925	17	15,098	+41	381	15,520	+ 71	15,449	12	224	15,213
1972	8,998	443	1,744	4,741	28	15,954	+28	388	16,370	-232	16,602	12	223	16,367
1973	8,784	424	1,738	6,256	30	17,232	+ 2	453	17,687	+135	17,552	13	231	17,308
1974	8,375	399	1,688	6,112	36	16,610	-25	480	17,065	+179	16,886	13	221	16,652

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(1) Includes benzol, other hydrocarbons, and hydrogen

(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available

(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply

(4) Separate data not available prior to 1968

(5) Data for this year and those for subsequent years are on a 50-state basis

Source: U.S. Bureau of Mines

Section VII
Table 2a

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

	PRODUCTION													
Year	Crude Oil	Lease Con-densate	Natural Gas Liquids	Total Imports	Other Refinery Input(1)	Total New Supply	Un-accounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1975	8,007	367	1,633	6,056	38	16,101	+16	460	16,577	+ 32	16,545	14	209	16,322
1976	7,776	355	1,604	7,313	38	17,086	+77	477	17,640	- 58	17,698	14	223	17,461
1977	7,875	370	1,618	8,787	50	18,700	- 6	524	19,218	+529	18,689	16	243	18,431[4]
1978	8,353	355	1,567	8,202	53	18,530	-57	496	18,969	-257	19,226	16	362	18,847[4]
1979	8,18[illegible]	371	1,583	8,389	44	18,568	-11	527	19,084	+ 81	19,001	16	471	18,516[4]
1980	8,210	386	1,573	6,865	44	17,078	+34	597	17,709	+ 94	17,615	14	544	17,056[4]
1981	8,177	395	1,609	5,740	50	15,971	+61	508	16,540	-176	16,716	63	595	16,058[4]
1982	8,262	387	1,350	4,948	53	15,200	-55	531	15,676	-497	16,173	62	815	15,296
1983	8,688	(6)	1,547	4,817	64	15,116	+114	488	15,718	-254	15,972	2	739	15,231
1984	8,879	(6)	1,630	5,240	45	15,794	+185	553	16,532	+ 83	16,450	2	722	15,726

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(1) Includes benzol, other hydrocarbons, and hydrogen

(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available

(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply

(4) Figures do not add due to independent rounding

(5) Excludes oil imported to the strategic petroleum reservve

(6) Included with crude oil. Separate figure is not available.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals

Section VII
Table 3

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE[*]
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	2,306	1	2,307	92,303	- 1	2,308	130	2,178
1948	2,513	1	2,514	103,756	+32	2,482	102	2,380
1949	2,632	-	2,632	111,443	+21	2,611	108	2,503
1950	2,806	-	2,806	116,769	+14	2,792	68	2,724
1951	3,122	1	3,123	134,867	+28	3,095	110	1,985
1952	3,219	4	3,223	134,737	+ 1	3,222	99	3,123
1953	3,470	1	3,471	157,872	+64	3,407	104	3,303
1954	3,456	-	3,456	155,400	- 7	3,463	94	3,369
1955	3,764	1	3,765	165,433	+27	3,738	95	3,643
1956	3,904	4	3,908	187,271	+59	3,849	97	3,752
1957	3,940	8	3,948	196,776	+26	3,922	106	3,816
1958	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959(2)	4,079	36	4,115	187,613	-	4,115	46	4,069
1960	4,160	27	4,187	194,774	+20	4,167	37	4,130
1961	4,199	29	4,228	195,830	+ 3	4,225	25	4,200
1962	4,338	38	4,376	190,138	+16	4,360	18	4,342
1963	4,452	44	4,496	190,937	+ 6	4,490	19	4,471
1964	4,539	29	4,568	193,633	+21	4,547	17	4,530
1965	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,911	43	4,954	194,177	+30	4,924	11	4,913
1967	5,057	42	5,099	207,980	+37	5,062	14	5,048
1968	5,301	59	5,360	211,526	+10	5,350	6	5,344
1969	5,557	62	5,619	217,392	+16	5,603	7	5,596

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(2) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE*
(Daily Averages in Thousands of Barrels)

Year	Supply			Stocks as of Dec. 31(5) (thousands of barrels)	Demand			
	Production	Imports	New Supply		Change in Stocks	Total Demand	Exports	Domestic Demand
1970	5,768	67	5,835	214,348	- 8	5,843	4	5,839
1971	6,034	59	6,093	223,771	+25	6,068	5	6,063
1972	6,339	68	6,407	217,149	-18	6,425	2	6,423
1973	6,580	132	6,712	213,417	-11	6,723	5	6,718
1974	6,404	204	6,608	221,881(3)	+23	6,585	3	6,582
1975	6,558	184	6,742	238,002	+27	6,715	2	6,713
1976	6,877	131	7,008	234,272	-10	7,018	4	7,014
1977	6,982	218	7,200	257,623	+64	7,136	2	7,134
1978	7,117	190	7,307	241,002	-54	7,361	2	7,358
1979	6,889	181	7,070	239,919	- 3	7,073	—	7,073
1980	6,541	140	6,681	264,205	+66	6,615	—	6,615
1981	6,437	157	6,594	256,425(4)	-27	6,621	2	6,619
1982	6,362	197	6,559	246,935	-26	6,584	20	6,564
1983	6,365	248	6,613	225,042	-45	6,658	10	6,648
1984	6,478	299	6,777	246,307	+54	6,723	6	6,717

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* Includes motor and aviation gasoline.

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels.

(4) U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 265,802 thousand barrels. This figure was used to compute the 1981 stock change.

(5) Includes blending components.

Source: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual.
1981-1984--U.S. Energy Information Administration, Petroleum Supply Annuals

Section VII
Table 4

TOTAL U.S. SUPPLY AND DEMAND FOR MOTOR GASOLINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (3)
1964(1)	4,399	29	4,428	185,766	+23	4,405	2	4,403
1965	4,537	27	4,564	174,717	-30	4,594	1	4,593
1966	4,798	43	4,841	186,393	+31	4,810	2	4,808
1967	4,956	42	4,998	200,055	+ 7	4,961	3	4,958
1968	5,215	59	5,274	204,496	+13	5,261	1	5,260
1969	5,484	62	5,546	211,199	+18	5,528	2	5,526
1970	5,714	67	5,781	209,255	- 5	5,786	1	5,785
1971	5,984	59	6,043	219,352	+28	6,015	1	6,014
1972	6,292	68	6,360	212,894	-18	6,378	1	6,377
1973	6,535	134	6,669	209,478	-10	6,679	4	6,675
1974	6,360	204	6,564	218,410(2)	+24	6,540	2	6,538
1975	6,520	184	6,704	234,978	+28	6,676	2	6,674
1976	6,841	130	6,971	231,432	-10	6,679	4	6,675
1977	7,033	217	7,250	257,623	+73	7,177	2	7,175
1978(4)	7,335	190	7,525	237,979	-54	7,579	1	7,578
1979(4)	7,120	181	7,301	237,200	- 1	7,302	0(3)	7,302
1980(4)	6,814	140	6,954	261,398	+66	6,888	1	6,887
1981	6,405	157	6,562	253,001	-28	6,590	2	6,588
1982	6,338	197	6,535	243,876	-25	6,560	20	6,539
1983	6,340	247	6,587	222,434	-45	6,632	10	6,622
1984	6,453	299	6,752	243,296	+54	6,698	6	6,693

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(1) Data prior to 1964 is not available on a comparable basis.

(2) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.

(3) Totals do not add due to independent rounding.

(4) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplies. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980. The stock reporting base was also altered as of January 1981. On the new basis, year-end 1980 stocks were 263,003 thousand barrels. This figure was used to compute the 1981 stock change.

Source: U.S. Bureau of Mines, Annual Petroleum Statements.
U.S. Department of Energy, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	864	12	876	51,081	- 23	899	82	817
1948	1,046	7	1,053	71,429	+ 64	989	58	931
1949	941	5	946	75,207	+ 10	936	34	902
1950	1,100	7	1,107	71,948	- 10	1,117	35	1,082
1951	1,311	5	1,316	86,619	+ 29	1,287	62	1,225
1952	1,422	8	1,430	99,375	+ 35	1,395	92	1,303
1953	1,452	9	1,461	111,741	+ 35	1,426	89	1,337
1954	1,490	9	1,499	108,144	- 9	1,508	66	1,442
1955	1,656	12	1,668	111,333	+ 9	1,659	67	1,592
1956	1,825	14	1,839	133,981	+ 62	1,777	94	1,683
1957	1,838	23	1,861	149,449	+ 42	1,819	131	1,688
1958	1,734	41	1,775	125,101	- 67	1,842	52	1,790
1959(1)	1,865	48	1,913	151,164	+ 70	1,843	35	1,808
1960	1,830	35	1,865	138,455	- 34	1,899	27	1,872
1961	1,911	47	1,958	152,018	+ 37	1,921	19	1,902
1962	1,975	33	2,008	144,505	- 21	2,029	22	2,007
1963	2,098	25	2,123	156,677	+ 35	2,088	41	2,047
1964	2,031	32	2,063	155,846	- 2	2,065	15	2,050
1965	2,099	36	2,135	155,407	- 1	2,136	10	2,126
1966	2,155	38	2,193	154,096	- 4	2,197	12	2,185
1967(2)	2,207	51	2,258	159,703	+ 5	2,253	12	2,241
1968	2,299	131	2,430	173,158	+ 37	2,393	4	2,389
1969	2,326	139	2,465	171,714	- 4	2,469	3	2,466
1970	2,460	148	2,608	195,271	+ 65	2,543	3	2,540
1971	2,503	153	2,656	190,622	- 13	2,669	8	2,661
1972	2,636	181	2,817	154,319	- 99	2,916	3	2,913
1973	2,824	392	3,216	196,461	+115	3,101	9	3,092
1974	2,671	289	2,960	200,068(3)	+ 10	2,950	2	2,948

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(1) These figures and those for subsequent years are on a 50-state basis.

(2) Production and stocks at gas processing plants are included in this and subsequent years.

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change (Table 5a).

SOURCE: U.S. Bureau of Mines, Annual Petroleum Statements

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	2,656	155	2,811	208,833	- 41	2,852	1	2,851
1976	2,925	146	3,072	185,986	- 62	3,134	1	3,133
1977	3,281	250	3,531	250,295	+178	3,353	1	3,352
1978(1)	3,171	173	3,344	216,463	- 93	3,437	3	3,435
1979(1)	3,167	197	3,364	228,729	+ 34	3,330	3	3,327
1980(1)	2,769	139	2,908	205,132	- 64	2,972	3	2,969
1981	2,623	173	2,796	191,541	- 38	2,834	5	2,829
1982	2,616	93	2,709	178,592	- 35	2,744	74	2,671
1983(3)	2,456	174	2,630	140,263	-124	2,754	64	2,690
1984	2,681	272	2,953	161,072	+ 57	2,896	51	2,845

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(1) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980.

(2) Totals may not add due to independent rounding.

(3) In 1983, DOE changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised stock figures for 1982.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	1,301	149	1,450	47,091	—	1,450	29	1,421
1948	1,329	146	1,475	64,021	+72	1,403	36	1,367
1949	1,177	206	1,383	60,193	-11	1,394	35	1,359
1950	1,180	329	1,509	40,750	-53	1,562	45	1,517
1951	1,302	327	1,629	42,853	+ 3	1,626	80	1,546
1952	1,257	351	1,608	48,706	+16	1,592	76	1,516
1953	1,248	360	1,608	49,370	+ 2	1,606	71	1,535
1954	1,158	354	1,512	52,105	+ 8	1,504	73	1,431
1955	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,183	445	1,628	44,491	+15	1,613	76	1,537
1957	1,176	475	1,651	59,959	+42	1,609	105	1,504
1958	1,025	499	1,524	59,508	- 1	1,525	70	1,455
1959(1)	973	610	1,583	53,501	-18	1,601	57	1,544
1960	918	637	1,555	44,870	-24	1,579	51	1,528
1961	875	667	1,542	44,869	—	1,542	39	1,503
1962	820	724	1,544	49,996	+14	1,530	35	1,495
1963	765	747	1,512	47,538	- 6	1,518	42	1,476
1964	739	808	1,547	40,403	-20	1,567	52	1,515
1965	746	946	1,692	56,214	+43	1,649	41	1,608
1966	733	1,032	1,765	61,196	+14	1,751	35	1,716
1967	766	1,085	1,851	65,597	+ 5	1,846	60	1,786
1968	765	1,120	1,885	67,359	+ 5	1,880	54	1,826
1969	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	765	1,583	2,348	59,681	+16	2,332	36	2,296
1972	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	988	1,853	2,841	53,480	- 5	2,846	23	2,823
1974	1,083	1,587	2,670	59,694(2)	+17	2,653	14	2,639

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(1) These figures and those for subsequent years are on a 50 state basis.

(2) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change (Table 7a).

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 6a

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (3)
1975	1,251	1,223	2,474	74,126	- 2	2,476	15	2,461
1976	1,393	1,413	2,806	72,344	- 5	2,811	12	2,799
1977	1,767	1,359	3,126	89,993	+49	3,077	6	3,071
1978[1]	1,681	1,355	3,036	90,194	+ 1	3,037	13	3,024
1979[1]	1,708	1,151	2,859	95,598	+15	2,844	9	2,835
1980[1]	1,660	920	2,580	90,344	-14	2,594	33	2,561
1981	1,369	800	2,169	77,992	-37	2,206	118	2,088
1982	1,118	776	1,894	66,200	-32	1,926	209	1,716
1983(2)	852	699	1,551	48,504	-55	1,606	185	1,421
1984	891	681	1,572	53,000	+12	1,560	190	1,369

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[1] In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979 and 1980.

(2) In 1983, the Department of Energy changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised figure for 1982.

(3) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

Section VII
Table 7

DELIVERIES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	Residual	Total	Total Fuel Oil Demand, All Sectors
1947	39	167	206	2,238
1948	41	155	196	2,298
1949	34	219	253	2,261
1950	36	255	291	2,599
1951	26	193	219	2,771
1952	23	192	215	2,819
1953	19	234	253	2,872
1954	17	194	211	2,873
1955	16	208	224	3,118
1956	15	202	217	3,220
1957	15	210	225	3,192
1958	15	211	226	3,245
1959(1)	14	225	239	3,352
1960(2)	13	233	246	3,400
1961	11	241	252	3,405
1962	11	242	253	3,502
1963	11	251	262	3,523
1964	10	267	277	3,565
1965	10	315	235	3,734
1966	10	378	388	3,901
1967	8	434	442(3)	4,027
1968	23(4)	505	528	3,215
1969	33	679	712	4,444
1970	68	856	924	4,744
1971	97	1,019	1,116	4,957
1972	187(5)	1,189	1,376	5,442
1973	214(5)	1,396	1,610	5,915
1974	232(5)	1,302	1,534	5,587
1975	174(5)	1,246	1,420	5,312
1976	165(5)	1,351	1,510	5,961
1977	210(5)	1,560	1,770	6,441
1978	211(5)	1,461	1,672	6,467
1979	128	1,333	1,461	6,162

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(1) These data include Alaska but not Hawaii.
(2) These data and those for subsequent years are on a 50-state basis.
(3) Electric public utility power plants only.
(4) These data and those for subsequent years include distillate sales for gas turbine plants.
(5) Includes kerosine jet fuel; 1972—24,000 bbls. per day; 1973—17,000 bbls. per day; 1974—14,000 bbls. per day; 1975—9,000 bbls. per day; 1976—11,600 bbls. per day; 1977—17,419 bbls. per day; 1978—12,342 bbls. per day.

Source: Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals
1979 — Energy Information Administration, Petroleum Supply Annual.

DELIVERIES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	Residual	Total	Total Fuel Oil Demand, All Sectors
1980	87	1,066	1,153	5,531
1981	50	892	942	4,916
1982	33	623	656	4,387
1983	32	560	592	4,111

Source: U.S. Energy Information Administration, Petroleum Supply Annual

MOTOR GASOLINE CONSUMPTION IN THE UNITED STATES
(Thousand Gallons)

STATE	1962(1)	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,603	90,489	92,064	111,594	123,995
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	867,887	933,764	998,011	1,094,225	1,201,122
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,684	9,363,091	9,995,752	10,307,287
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,840	1,109,271	1,187,015	1,295,516	1,356,428
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316
Dist. of Col.	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798
Georgia	1,404,674	1,465,671	1,563,737	1,655,099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556
Hawaii	151,197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	363,990	379,479	400,735	421,403	451,315	468,321
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,652	4,408,829	4,596,788	4,836,883	5,048,307
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,485
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,261,616	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,696	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,366,279	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,547,187	4,748,355
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190
Montana	309,869	309,609	313,450	327,979	334,344	342,289	361,060	371,950	395,762	425,158	427,048	440,456
Nebraska	633,965	655,102	676,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846
Nevada	184,637	205,360	218,989	233,702	242,024	257,239	264,295	285,519	314,702	333,806	365,954	389,776
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,830	686,811
New York	4,068,568	4,198,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,115	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,953	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,667	4,458,007	4,768,816	4,836,463
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,074,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,698	420,859	439,796	464,493	472,646
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,328,563	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,582	233,411	246,667	256,601	279,080	293,571
Total	62,531,373	64,779,104	67,663,848	70,337,126	73,686,872	76,139,326	80,867,012	85,415,920	89,405,266	93,907,352	100,068,575	104,579,479

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(1) Prior to 1962 data not available on a comparable basis.

Source: U.S. Energy Information Administraton, Natural Gas Annuals

Note: The gallonage shown above represents consumption of motor gasoline, excluding sales to U.S. Government and sales of aviation gasoline.

MOTOR GASOLINE SALES IN THE UNITED STATES
(Thousand Gallons)

STATE	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	1,862,659	1,918,203	2,028,878	2,098,979	2,181,179	2,093,703	1,962,046	1,849,225	1,840,396	1,861,406	1,905,267
Alaska	163,070	193,725	214,140	204,006	209,118	219,472	201,373	212,804	235,112	221,229	248,993
Arizona	1,147,782	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722	1,344,438	1,341,613	1,410,904	1,489,965
Arkansas	1,152,195	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800	1,137,998	1,123,466	1,128,357	1,193,067
California	9,887,993	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050	10,842,862	10,660,534	11,032,662	11,413,578
Colorado	1,301,967	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288	1,506,429	1,513,235	1,560,776	1,514,511
Connecticut	1,327,308	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582	1,296,048	1,284,966	1,308,077	1,339,766
Delaware	296,489	303,545	315,973	314,070	313,277	306,489	293,851	290,581	282,463	308,772	320,247
Dist. of Col.	240,457	243,215	229,031	225,434	221,831	214,782	171,451	171,082	170,518	168,019	181,199
Florida	4,205,193	4,345,632	4,507,541	4,668,677	4,929,713	4,905,642	4,810,520	4,845,057	4,900,197	5,078,234	5,261,730
Georgia	2,739,639	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923	2,809,969	2,818,366	2,904,369	3,053,861
Hawaii	277,849	289,772	303,836	320,804	332,512	332,490	354,529	347,848	349,098	355,332	371,084
Idaho	457,785	482,462	520,640	530,225	563,708	538,740	488,333	471,054	456,063	459,377	458,332
Illinois	5,024,751	5,127,189	5,327,380	5,423,741	5,565,912	5,186,151	4,816,780	4,598,012	4,522,361	4,609,320	4,733,589
Indiana	2,739,043	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146	2,616,773	2,431,388	2,479,277	2,934,238
Iowa	1,647,054	1,766,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192	1,474,522	1,420,817	1,394,722	1,398,211
Kansas	1,329,122	1,378,773	1,462,585	1,433,106	1,504,662	1,406,812	1,310,568	1,268,609	1,236,159	1,240,248	1,245,120
Kentucky	1,676,588	1,743,523	1,840,476	1,889,170	1,941,387	1,868,006	1,755,397	1,729,135	1,721,620	1,734,296	1,764,567
Louisiana	1,756,343	1,830,011	1,986,865	2,076,160	2,157,919	2,158,327	2,081,328	2,103,397	2,145,094	2,151,035	2,166,617
Maine	520,051	536,015	567,427	575,775	586,048	541,664	517,014	497,749	505,620	519,891	530,799
Maryland	1,789,440	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209	1,919,423	1,888,873	1,892,434	1,959,267
Massachusetts	2,296,921	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675	2,249,956	2,235,986	2,266,746	2,340,189
Michigan	4,565,132	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036	4,014,363	3,795,814	3,680,884	4,042,348
Minnesota	2,034,085	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270	1,984,982	1,931,205	1,985,492	2,084,655
Mississippi	1,195,373	1,192,595	1,254,446	1,322,865	1,332,417	1,292,209	1,194,845	1,208,384	1,151,872	1,158,134	1,191,027
Missouri	2,628,598	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627	2,528,616	2,494,373	2,536,042	2,601,207
Montana	448,019	461,411	493,245	511,714	531,445	499,397	459,950	445,641	452,371	459,851	455,738
Nebraska	868,296	880,948	939,870	939,626	958,879	907,383	816,426	798,518	792,579	776,930	470,071
Nevada	382,610	409,496	434,031	464,832	509,705	500,916	500,286	508,535	490,270	489,835	504,530
New Hampshire	390,559	401,243	426,860	444,560	456,391	433,556	411,214	398,692	393,276	405,203	434,424
New Jersey	3,174,698	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992	3,150,798	3,172,525	3,371,871	3,358,178
New Mexico	683,532	708,455	760,885	779,366	821,722	793,452	746,655	742,486	744,599	740,916	764,343
New York	5,997,859	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549	5,674,946	5,617,353	5,491,074	6,148,506
North Carolina	2,820,286	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274	2,874,700	2,842,968	2,911,221	3,042,021
North Dakota	411,328	433,296	452,728	452,771	467,847	443,692	407,250	408,449	403,067	390,085	390,514
Ohio	5,006,097	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574	4,766,658	4,561,134	4,634,793	4,744,494
Oklahoma	1,675,497	1,743,196	1,832,255	1,881,335	1,984,458	1,897,821	1,845,259	1,922,403	1,929,207	1,907,622	1,877,793
Oregon	1,187,671	1,224,276	1,310,983	1,369,886	1,441,886	1,385,047	1,330,612	1,271,001	1,211,110	1,222,903	1,263,213
Pennsylvania	4,813,878	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328	4,474,475	4,384,130	4,370,547	4,422,335
Rhode Island	371,740	395,532	384,525	405,832	412,404	397,229	381,826	368,524	360,833	365,634	369,612
South Carolina	1,456,658	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787	1,529,196	1,515,808	1,539,188	1,601,942
South Dakota	456,444	501,055	474,182	489,910	497,196	458,549	423,517	403,635	393,021	389,287	389,407
Tennessee	2,181,836	2,367,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939	2,388,466	2,355,395	2,331,655	2,501,396
Texas	7,099,280	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499	8,149,252	8,201,687	8,393,680	8,501,979
Utah	616,419	646,942	680,027	714,148	761,968	730,529	734,992	768,450	734,020	725,317	854,992
Vermont	235,325	240,270	255,094	260,155	269,204	252,404	238,842	234,114	236,905	242,056	252,093
Virginia	2,441,443	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199	2,530,673	2,493,638	2,554,245	2,665,515
Washington	1,666,944	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513	1,872,364	1,851,127	1,919,152	2,000,333
West Virginia	766,439	813,024	872,009	900,930	909,773	888,849	845,242	804,632	810,848	801,736	800,672
Wisconsin	2,145,544	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363	2,067,800	1,982,060	2,011,843	2,022,610
Wyoming	294,460	319,042	343,229	361,399	388,681	381,674	373,723	375,068	359,425	338,752	358,077
Total	101,855,749	104,516,610	109,873,935	113,102,038	116,780,787	112,678,296	106,378,366	104,248,792	102,747,065	104,231,431	108,248,222

Source: Federal Highway Administration, "Monthly Motor Fuel Reported by States"
Note: The gallonage shown above represents consumption of motor gasoline and includes sales to U.S. Government and sales of aviation gasoline. Excludes exports and dealer transfers.

Section VII
Table 9

U.S. SALES OF DISTILLATE FUEL OILS, BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,326	4,346	4,891	5,370
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	2,618	2,616
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018	2,100	2,774
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433	2,175	2,052
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884	26,357	26,697
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238	3,099	4,225
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885	22,176	23,230
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413	2,487	2,723
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402	2,719	2,914
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150	8,190	8,971
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887	4,731	5,117
Hawaii	—	—	—	—	—	—	—	—	—	—	—	—	—	876
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938	3,734	4,055
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869	43,008	42,490
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099	24,500	25,596
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883	11,360	11,141
Kansas	2,881	4,094	3,185	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477	5,060	4,751
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978	5,800	4,833
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756	11,249	10,694
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,426	6,434	7,108	7,456
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,086	12,495	13,101
Massachusetts	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452	47,781	51,022
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385	28,387	30,464
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468	15,079	16,241
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744	2,318	2,364
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274	12,700	12,830
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642	4,474	4,877
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527	3,929	4,183
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656	2,051	2,428
New Hampshire	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951	4,049	4,484
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923	45,634	45,542
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492	2,302	3,065
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779	79,499	81,677
North Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,406	11,544	13,353
North Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976	3,632	3,775
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	24,221	24,850	23,836
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754	2,603	2,631
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,939	10,981	10,862	10,132	9,380	10,456	10,920
Pennsylvania	19,916	22,198	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322	44,029	45,668
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250	7,167	8,093
South Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266	4,454	5,203
South Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800	2,882	2,964
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226	5,037	5,268
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077	26,541	24,315
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,256	4,655	3,478	3,841
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796	2,399	2,939
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300	12,984	14,184
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915	16,867	18,045
West Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913	2,154	2,462
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,099	17,149	20,136	20,316	21,711
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697	3,539	3,258
U.S. Total	298,014	341,973	329,196	395,306	448,908	479,210	488,844	526,245	581,127	615,775	617,275	653,559	658,992	683,325

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

Section VII
Table 9a

U.S. SALES OF DISTILLATE FUEL OILS BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510	8,849	12,093
Alaska	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082	6,352	6,207
Arizona	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898	5,242	8,786
Arkansas	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474	5,489	9,412
California	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188	47,357	45,797
Colorado	4,441	4,148	4,580	4,074	4,002	4,670	4,811	5,574	5,490	5,211	6,242	6,784
Connecticut	23,199	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147	24,100	24,735
Delaware	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,097	4,309	4,345	4,298
Dist. of Col.	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934	3,834	3,314
Florida	9,369	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,698	16,525	19,488
Georgia	5,269	6,218	6,969	6,977	8,666	10,059	11,558	12,013	12,540	12,784	14,633	16,491
Hawaii	1,666	1,641	1,375	1,769	1,613	1,369	1,190	1,381	1,573	1,695	1,706	1,622
Idaho	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597	5,702	5,866
Illinois	42,255	41,361	41,421	41,580	41,702	39,831	39,846	42,795	44,498	44,517	49,467	55,276
Indiana	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363	30,670	34,233
Iowa	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,681	14,242	14,975
Kansas	5,187	5,242	4,612	5,487	5,405	6,310	6,009	6,660	6,488	7,559	8,401	9,166
Kentucky	4,426	5,822	5,532	5,697	5,659	7,068	6,901	7,304	7,865	8,209	7,776	9,470
Louisiana	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,796	13,384	17,644
Maine	8,307	8,645	9,487	8,792	9,424	9,038	10,110	10,647	11,417	11,837	12,120	12,744
Maryland	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860	20,000	21,435
Massachusetts	52,266	53,448	51,664	49,966	56,694	51,262	54,943	56,315	58,399	59,211	61,609	63,616
Michigan	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,601	37,473	38,108	41,684	48,660
Minnesota	15,967	16,776	16,629	16,739	19,227	21,195	20,083	22,233	22,121	22,390	23,777	25,979
Mississippi	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987	7,215	9,413
Missouri	12,858	13,412	13,939	13,884	14,077	13,900	13,924	17,067	16,473	16,218	16,350	18,101
Montana	5,248	5,522	5,400	5,684	5,041	5,802	3,459	4,119	4,669	4,823	5,709	6,121
Nebraska	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459	7,604	9,002
Nevada	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832	3,151	2,924
New Hampshire	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676	8,085	8,303
New Jersey	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447	64,769	72,659
New Mexico	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,183	4,547	5,405	5,395	6,569
New York	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122	113,833	122,075
North Carolina	13,366	15,617	16,000	16,249	17,428	20,869	20,577	19,944	20,407	22,553	21,609	23,030
North Dakota	3,693	4,472	4,584	4,529	5,252	6,008	6,036	6,156	5,959	4,973	4,915	5,135
Ohio	23,433	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435	35,090	41,414
Oklahoma	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573	5,473	7,828
Oregon	11,061	11,777	12,828	13,855	13,295	13,837	13,083	13,298	13,646	12,895	14,162	15,467
Pennsylvania	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544	63,221	70,757
Rhode Island	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623	9,070	9,176
South Carolina	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469	9,114	9,722
South Dakota	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372	4,600	4,469
Tennessee	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945	11,609	14,218
Texas	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398	34,884	46,515
Utah	3,085	3,607	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104	6,515	6,310
Vermont	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732	5,472	5,729
Virginia	14,631	15,843	16,945	16,542	18,941	21,304	21,796	22,286	23,218	24,624	24,441	25,020
Washington	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188	18,621	19,090
West Virginia	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913	4,658	5,532
Wisconsin	22,153	23,399	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827	26,520	26,781
Wyoming	3,250	3,838	3,916	3,653	3,743	3,038	4,023	5,153	5,249	5,055	5,724	5,419
U.S. Total	690,874	729,095	748,124	747,551	786,891	809,713	829,200	873,100	900,300	927,250	971,320	1,074,870

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

Section VII
Table 9b

U.S. DELIVERIES OF DISTILLATE FUELS OILS BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976(1)	1977(1)	1978(1)	1979	1980	1981	1982	1983
Alabama	13,988	14,761	14,488	18,032	19,624	20,194	15,996	19,419	17,939	15,436	16,550
Alaska	6,384	6,591	6,946	9,517	10,187	10,571	5,808	6,781	6,548	6,335	6,840
Arizona	15,118	11,197	11,481	10,181	13,727	13,829	13,194	11,330	9,741	8,102	8,201
Arkansas	9,949	10,316	9,392	10,228	12,451	13,014	16,163	14,209	13,116	13,336	13,764
California	51,165	42,991	43,129	45,545	54,009	60,126	68,104	61,338	67,494	67,337	67,897
Colorado	7,737	8,712	8,590	9,408	9,668	10,023	10,451	9,665	8,634	9,132	9,717
Connecticut	25,181	22,677	21,844	23,706	23,249	23,011	27,916	22,499	19,745	20,509	20,286
Delaware	4,382	4,310	4,487	4,615	5,096	4,840	3,685	3,702	3,133	2,753	2,819
Dist. of Col.	3,462	3,497	3,112	3,781	4,005	6,204	4,364	3,436	2,125	2,215	2,537
Florida	22,662	22,599	23,083	24,268	28,236	28,920	28,084	28,520	29,816	22,503	28,792
Georgia	20,478	20,835	16,922	22,480	22,559	19,641	18,692	19,397	19,388	18,387	19,395
Hawaii	1,839	1,897	2,512	2,370	3,502	3,246	6,451	5,915	6,043	4,570	4,762
Idaho	6,297	6,876	7,378	7,346	7,983	8,362	6,504	4,879	4,775	4,496	4,428
Illinois	54,288	53,950	52,103	58,877	58,459	61,760	48,584	36,086	34,427	32,521	31,020
Indiana	34,353	34,516	33,314	36,193	38,044	39,278	35,653	30,488	28,961	28,913	28,023
Iowa	15,467	14,751	14,249	15,257	16,012	15,687	20,595	15,793	14,374	16,212	15,957
Kansas	10,330	11,080	11,328	11,986	12,484	14,317	18,960	13,923	13,239	13,817	13,336
Kentucky	10,457	10,176	10,760	13,566	16,845	18,809	20,608	22,598	18,217	17,507	17,350
Louisiana	24,677	24,766	22,139	23,324	32,251	33,185	37,224	32,804	37,964	30,858	32,094
Maine	12,147	11,659	11,331	13,407	14,476	13,373	11,218	10,627	9,266	9,189	8,994
Maryland	22,591	22,094	21,712	20,571	21,748	21,341	23,971	22,417	18,365	16,198	16,419
Massachusetts	62,970	58,934	57,195	61,666	59,564	57,446	42,347	37,413	32,155	32,263	31,308
Michigan	47,146	44,204	41,747	43,826	44,835	45,461	30,892	27,841	26,657	22,819	22,691
Minnesota	26,768	24,185	23,974	27,513	26,645	27,807	26,069	21,826	18,714	20,880	20,428
Mississippi	13,045	14,372	12,188	13,713	14,584	16,306	12,277	12,905	13,487	11,849	12,465
Missouri	18,781	17,424	17,106	19,555	20,588	23,027	22,780	18,150	18,003	20,738	20,308
Montana	6,924	7,646	7,459	8,383	8,141	8,114	7,774	6,626	6,486	5,814	5,949
Nebraska	9,262	8,684	8,363	10,178	10,643	12,127	12,601	9,145	8,233	9,176	8,915
Nevada	3,304	2,561	2,535	2,715	3,055	3,822	3,189	4,022	3,488	3,518	3,579
New Hampshire	8,208	7,551	7,047	8,758	8,231	8,292	5,741	5,845	5,313	5,084	4,937
New Jersey	74,564	67,426	58,937	61,787	60,052	56,592	50,447	52,719	50,973	45,546	44,813
New Mexico	7,948	7,635	8,080	8,022	9,337	9,633	10,431	10,222	12,526	7,954	8,571
New York	120,200	108,677	104,646	115,237	114,446	114,344	88,449	72,515	64,263	62,608	60,315
North Carolina	24,898	22,246	20,965	23,881	27,107	24,749	29,404	23,820	21,228	20,184	20,890
North Dakota	4,626	4,303	4,362	4,061	4,069	4,194	8,268	8,037	7,708	7,209	7,020
Ohio	41,415	40,831	42,160	51,519	52,501	55,346	44,952	48,397	44,959	40,250	39,232
Oklahoma	8,814	8,744	9,696	11,775	12,775	14,477	14,119	12,051	15,519	14,557	14,228
Oregon	16,070	14,324	13,240	14,062	16,794	16,671	19,281	17,051	16,492	15,020	14,977
Pennsylvania	70,793	71,508	66,341	74,691	77,861	73,311	76,651	68,066	59,977	53,065	52,729
Rhode Island	8,633	8,038	7,787	8,478	8,199	7,679	7,042	5,046	3,993	3,984	3,868
South Carolina	10,956	9,638	8,132	10,218	12,972	11,023	11,894	10,730	9,841	9,462	9,775
South Dakota	4,140	3,586	3,821	3,311	3,042	3,670	6,166	4,842	4,406	5,131	4,969
Tennessee	15,310	15,815	17,657	21,469	24,071	25,825	23,504	18,818	19,512	18,764	19,255
Texas	57,567	58,766	55,262	58,655	74,678	81,171	96,359	95,939	90,359	90,180	92,368
Utah	7,792	8,624	8,962	8,367	8,631	9,023	8,150	7,412	7,115	6,425	6,756
Vermont	6,001	4,981	4,566	5,394	5,274	5,135	5,389	4,076	3,828	2,707	2,967
Virginia	26,561	24,938	24,534	25,339	28,332	27,161	33,726	24,406	23,638	21,943	21,604
Washington	20,091	16,345	16,606	18,405	19,800	20,765	21,776	18,709	17,695	18,200	18,122
West Virginia	5,992	5,622	6,478	6,807	9,019	8,796	10,904	10,340	9,450	7,659	7,535
Wisconsin	27,264	26,330	26,035	30,366	31,107	32,940	31,504	22,539	20,726	20,537	20,282
Wyoming	6,138	6,897	7,565	8,120	9,211	10,423	10,063	11,375	12,452	11,015	11,889
U.S. Total	1,135,063	1,081,086	1,043,746	1,150,929	1,230,179	1,257,061	1,214,374	1,086,709	1,032,476	974,864	981,927

Source: U.S. Department of Energy, Sales of Fuel Oil and Kerosine and Petroleum Supply Annuals

Section VII
Table 10

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils	Industrial Use	Oil Company Fuel	Electric Utility Company	Railroads	Vessel Bunkering	Military Use	Diesel	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	34,980	12,087	488,844
1954	320,117	41,589	7,699	6,070	77,389	15,563	8,752	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	48,870	9,908	615,775
1957	377,044	43,523	10,419	5,296	88,315	20,420	12,737	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	65,186	9,054	653,559
1959 (2)	415,521	33,380	8,642	5,005	87,802	19,250	11,394	70,527	7,471	658,992
1960 (3)	438,010	34,271	8,347	4,742	86,490	18,730	10,793	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,003	15,836	13,041	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,612	89,104	16,642	16,303	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	(1)	147,831	829,200
1968	510,682	45,795	9,975	8,509 (4)	84,030	18,235	12,593	171,773	11,508	873,199
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	276,961	11,876	1,135,063
1974	493,223	64,036	13,805	84,661	102,949	24,757	17,748	269,776	10,131	1,081,086

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(1) Data not available
(2) Includes Alaska
(3) Includes Alaska and Hawaii
(4) Includes gas turbine plants in 1968 and subsequent years

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils(5)	Industrial Use(6)	Oil Company Fuel	Electric Utility Company(7)	Railroads	Vessels Bunkering	Military Use(8)	Diesel	All Other	Total
1975	488,388	63,993	13,633	63,420	92,191	26,138	18,004	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	360,799	14,059	1,257,061
1979	454,955(9)	99,583	22,043	46,579	103,493	41,725	18,570	392,614	34,812	1,214,374
1980	393,112	86,089	24,205	31,812	102,022	35,201	19,138	375,136	19,994	1,086,709
1981	345,728	80,216	29,185	18,192	100,482	41,025	17,763	378,853	21,032	1,032,476
1982	324,912	71,340	29,482	12,134	93,150	33,885	15,201	375,124	19,639	974,864
1983	311,289	69,332	29,957	11,744	91,681	33,785	15,925	399,013	19,201	981,927

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(5) Includes range oil
(6) Excludes oil company use
(7) Includes kerosine-type jet fuel: 1976 — 11,600 bbls. per day; 1977 — 18,770 bbls. per day; 1978 — 12,342 bbls. per day.
(8) Includes imports by military
(9) Beginning in 1979, heating oils is no longer a separate category. The figure is derived by adding residential, commercial and farming.

Source: 1975-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

Section VII
Table 11

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178	4,202
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	574	695
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34	95
Arkansas	2,253	2.080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346	474
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287	78,774
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603	1,790
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814	14,450
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063	6,081
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450	2,387
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,343	28,909	32,236	34,910	36,228	37,470	33,310	28,978
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824	6,413
Hawaii	—	—	—	—	—	—	—	—	—	—	—	—	—	5,613
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185	201
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689	25,893
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035	12,885
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088	1,021
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943	2,249
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570	321
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764	8,599
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433	5,742
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385	16,490
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532	38,942
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498	11,242
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399	6,393
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435	339
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129	3,026
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006	2,002
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218	378
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146	202
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984	2,324
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,339	46,154	44,587	45,136	36,841	41,422	42,971
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107	173
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784	76,586
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908	4,537
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597	663
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,206	18,530	9,721	11,028	11,382
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319	1,396
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121	5,453
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660	42,731
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11.127	10,350	9,502
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,985	4,291	4,389	4,383	4,660	4,886	4,634
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48	60
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284	184
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275	22,102
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872	5,562
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275	498
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703	17,448
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162	9,179
West Virginia	828	1,171	1,366	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620	1,451
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167	4,275
Wyoming	2,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842	1,738
U.S. Total	520,529	506,497	494,933	554,208	563,338	556,273	564,729	520,714	556,983	561,538	543,950	531,367	554,352	550,536

Source: Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual.

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	3,555	2,749	3,184	2,274	2,459	2,752	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,549	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	10,042	11,148	10,748	10,656
Florida	32,600	37,044	36,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	2,638	2,131	2,335	2,400	3,252	2,623	3,371	3,379	3,640	3,615	2,904	2,552
Montana	2,533	3,049	2,836	2,356	1,195	1,371	1,189	1,495	1,524	1,249	1,236	1,485
Nebraska	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	311	323	209	146	655	363	111	90	95	215	466	621
New York	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	873	967	797	825	795	637	776	866	683	744	637	1,355
Oregon	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	52,489	60,389	59,973	58,490
Rhode Island	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	171	105	275	287	276	331	465	334	786	596	365	523
Texas	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	540	629	607	413	937	1,048	504	547	677	903	898	954
Virginia	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S. Total	542,986	548,433	538,522	556,632	574,118	613,972	639,539	669,484	722,629	804,287	838,044	925,647

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. DELIVERIES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Alabama	6,151	10,496	13,220	14,684	16,272	16,443	11,294	8,820	4,686	6,350	5,118
Alaska	1,051	1,098	1,104	1,342	1,738	2,595	321	397	249	301	337
Arizona	4,288	6,943	5,182	4,108	7,478	3,413	5,032	1,046	227	297	88
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747	11,813	5,472	2,449	1,803	1,283
California	121,059	105,314	113,782	136,080	180,436	140,595	160,428	162,365	126,463	81,392	58,706
Colorado	2,317	3,177	3,591	3,903	3,502	4,091	1,041	1,373	165	14	13
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325	27,241	28,209	21,951	21,349	22,311
Delaware	13,117	12,632	10,239	11,332	11,524	11,376	11,073	12,889	8,671	6,289	5,485
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235	767	444	389	1,527	1,064
Florida	82,873	75,440	78,885	92,171	85,323	91,175	98,722	96,955	90,347	63,079	54,415
Georgia	13,888	13,454	9,831	12,257	12,666	11,988	13,368	8,512	6,251	5,562	4,307
Hawaii	11,580	11,219	10,776	11,778	12,512	12,796	12,641	13,251	13,311	13,323	12,228
Idaho	243	597	703	803	697	1,003	580	460	55	223	202
Illinois	28,795	28,521	26,948	23,659	26,598	30,111	26,675	28,023	21,399	15,507	11,793
Indiana	15,536	16,078	14,052	19,188	19,447	19,004	16,271	14,335	7,638	4,856	4,231
Iowa	679	628	405	588	764	599	836	360	100	321	291
Kansas	2,847	2,660	5,945	6,416	6,307	6,686	4,830	1,046	697	993	760
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506	1,151	966	1,150	1,197	1,030
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252	63,359	72,686	55,687	48,260	38,254
Maine	19,860	15,272	10,064	13,116	12,234	11,415	10,738	8,413	10,090	15,803	12,670
Maryland	42,534	39,310	25,538	27,330	26,122	28,217	23,851	16,090	12,396	11,898	9,535
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208	58,958	52,948	49,673	42,762	34,810
Michigan	14,560	14,876	18,739	20,656	21,345	24,871	18,547	11,934	8,947	4,285	3,192
Minnesota	7,069	5,883	4,322	5,796	4,414	4,576	2,695	3,044	1,460	1,732	1,594
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308	24,740	17,459	9,725	5,570	4,326
Missouri	2,959	2,375	2,992	2,948	3,647	3,620	3,196	1,370	656	856	818
Montana	1,705	2,290	2,186	2,549	2,414	2,665	4,188	3,012	2,519	1,668	1,512
Nebraska	639	1,045	1,077	1,650	1,189	1,410	622	78	57	198	170
Nevada	612	690	1,456	649	1,455	2,756	1,541	2,503	250	119	39
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408	6,109	5,437	4,835	4,106	3,568
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726	60,980	53,167	38,279	34,241	28,095
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081	596	1,305	856	716	529
New York	169,669	155,327	146,837	157,812	157,773	153,037	130,344	112,872	97,868	90,073	79,354
North Carolina	15,393	13,819	7,786	12,667	14,499	12,814	11,889	9,114	5,677	5,971	4,372
North Dakota	898	1,190	1,101	1,045	889	950	801	701	1,130	1,171	954
Ohio	6,866	8,330	9,957	11,041	14,491	13,431	9,674	6,282	5,920	2,488	2,090
Oklahoma	1,629	1,201	752	683	661	987	820	719	745	700	603
Oregon	7,439	6,650	4,484	3,606	3,395	5,087	5,526	4,562	6,407	10,927	7,726
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366	45,365	34,777	30,340	20,789	24,008
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088	2,387	2,230	2,227	1,791	1,203
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579	11,249	7,127	5,142	2,965	2,255
South Dakota	234	137	153	299	260	213	166	115	161	51	44
Tennessee	650	883	734	3,085	3,404	2,529	2,276	1,472	1,239	748	647
Texas	29,208	36,891	41,072	44,195	52,178	63,634	73,206	73,189	68,671	62,069	50,898
Utah	3,649	4,295	4,698	4,917	4,565	4,441	2,374	2,584	1,064	886	802
Vermont	876	535	818	1,285	1,136	1,073	337	471	351	372	271
Virginia	46,123	43,274	40,015	40,108	41,171	37,371	34,020	24,704	13,072	9,591	7,328
Washington	10,986	10,365	8,627	7,675	9,683	12,647	13,893	17,332	16,505	14,029	8,791
West Virginia	1,448	1,709	1,847	4,146	4,039	3,082	1,982	1,465	1,001	1,443	1,050
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613	1,915	1,751	871	2,212	1,954
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090	2,182	1,630	2,009	1,634	1,481
U.S. Total	1,030,177	963,216	898,572	1,025,148	1,120,927	1,103,233	1,034,610	937,466	762,028	626,510	518,604

Source: 1973-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils	Military Use	Miscel-laneous Uses	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959(1)	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960(2)	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632

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(1) Includes Alaska
(2) Includes Hawaii

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(1)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(3)	Military Use(2)	Miscellaneous Uses	All Uses
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	63,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	838,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233
1979	190,543	486,636	245	51,062	198,759	82,729(3)	7,736	16,900	1,034,610
1980	213,131	390,105	665	59,519	163,564	98,034(3)	8,066	4,382	937,466
1981	188,632	325,486	178	51,870	117,024	67,035(3)	7,008	4,795	762,030
1982	152,586	227,419	170	45,319	122,619	65,781(3)	7,829	4,784	626,510
1983	136,290	204,238	140	32,820	89,573	46,743(3)	5,411	3,389	518,604

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(1) Beginning with 1967, represented use by electric public-utility plants only.
(2) Includes imports by military.
(3) Beginning in 1979, heating oil has been reclassified commercial and is a part of the total called "heating and industrial."

Source: 1965-1978 — U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1983 — U.S. Energy Information Administration, Petroleum Supply Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL--NAPHTHA TYPE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(2)	Exports	Domestic Demand(2)
1965(1)	226	44	270	8,338	—	270	2	268
1966	245	35	280	7,235	-3	283	4	279
1967	300	15	315	9,037	+5	310	5	305
1968	332	19	351	8,904	—	351	5	346
1969	287	14	301	8,556	-1	302	5	297
1970	320	20	250	6,621	-5	255	6	249
1971	234	30	264	6,990	+1	263	3	260
1972	209	33	242	6,147	-2	244	2	242
1973	181	36	217	5,599	-2	219	2	217
1974	195	27	222	5,529	—	222	—	222
1975	180	28	208	5,222	-1	209	—	209
1976	187	15	202	6,495	+3	199	—	199
1977	186	21	207	6,285	-1	208	—	208
1978	179	19	198	5,958	-1	199	—	199
1979	176	22	198	5,599	-1	200	—	200
1980	188	31	219	6,308	+2	217	—	217
1981	193	7	200	7,054	+2	198	1	198
1982	201	5	206	5,667	-4	210	1	209
1983	205	1	206	6,265	-2	208	1	207
1984	213	14	227	6,861	+2	225	3	223

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(1) Data prior to 1965 ar not available on a comparable basis.

(2) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984 — U.S. Energy Information Administration, Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL — KEROSINE TYPE
*(Daily Averages in Thousands of Barrels)

Year	Supply: Production	Supply: Imports	Supply: New Supply	Stocks as of Dec. 31 (thousands of barrels)	Demand: Change in Stocks	Demand: Total Demand	Demand: Exports	Demand: Domestic Demand
1965(1)	298	37	335	10,361	—	335	1	334
1966	345	52	397	13,139	+ 5	392	1	391
1967	448	74	522	13,174	+ 3	519	1	518
1968	529	86	615	15,373	+ 6	609	—	609
1969	594	111	705	19,517	+11	694	—	694
1970	597	125	722	29,989	+ 4	718	—	718
1971	601	150	751	20,747	- 1	752	1	751
1972	638	162	800	19,346	- 3	803	—	803
1973	679	176	855	22,945	+10	845	3	842
1974	641	135	776	23,906	+ 3	773	2	771
1975	691	105	796	25,158	+ 3	793	2	791
1976	731	61	792	25,590	+ 1	791	2	789
1977	788	53	841	28,263	+ 8	833	2	831
1978	791	67	858	27,707	- 1	859	1	858
1979	835	56	891	32,921	+14	877	1	876
1980	811	49	860	35,723	+ 8	852	1	851
1981	775	31	806	34,011	- 5	811	1	809
1982	778	23	801	31,180	- 8	809	5	804
1983	817	29	846	32,346	+ 2	844	5	839
1984	919	48	967	35,118	+ 8	959	7	953

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(1) Data prior to 1965 are not available on a comparable basis.
(2) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration Annual Petroleum Statements.
1981-1984 — U.S. Energy Information Administration, Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	302	—	302	17,722	+ 1	301	20	281
1948	333	—	333	23,941	+17	316	9	307
1949	280	—	280	20,888	- 8	288	7	281
1950	325	—	325	19,723	- 3	328	5	323
1951	372	—	372	27,088	+16	356	19	337
1952	351	—	351	26,529	- 1	352	21	331
1953	337	—	337	28,684	+ 4	333	19	314
1954	335	—	335	27,826	- 2	337	13	324
1955	326	—	326	26,770	- 3	329	9	320
1956	342	—	342	31,420	+12	330	9	321
1957	303	—	303	29,200	- 6	309	14	295
1958	305	—	305	26,040	- 8	313	3	310
1959 (1)	305	—	305	26,856	+ 1	304	3	301
1960 (2)	374	—	374	31,445	+10	364	2	362
1961	391	8	399	32,433	+ 3	396	1	395
1962	431	18	449	31,725	- 2	451	1	450
1963	454	24	478	34,102	+ 4	474	2	472
1964	463	31	494	36,165	+ 6	488	—	488
1965 (3)	259	—	259	24,080	- 9	268	1	267
1966	279	1	280	25,004	+ 2	278	1	277
1967 (4)	274	—	274	25,366	—	274	—	274
1968	278	—	278	23,480	- 5	283	2	281
1969	282	3	285	26,780	+ 9	276	1	275
1970	262	4	266	27,848	+ 3	263	—	263
1971	240	1	241	24,438	- 9	250	1	249
1972	219	1	220	19,111	-16	236	—	236
1973	220	2	222	21,022	+ 6	216	—	216
1974	156	5	161	15,269	-15	176	—	176

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(1) These figures and those for subsequent years are on a 50 state basis.
(2) These figures and those through 1964 include commercial jet fuel.
(3) These figures and those for subsequent years exclude kerosine-type jet fuel.
(4) Beginning with 1967 production at refineries and at plants are combined in one total.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 15a

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(1)	Exports	Domestic Demand
1975	152	3	155	15,571	- 4	159	—	159
1976	152	9	161	12,514	- 8	169	—	169
1977	171	19	190	18,056	+15	175	—	175
1978	154	11	165	14,330	-10	175	—	175
1979	183	9	192	15,824	+ 4	189	—	189
1980	137	10	147	11,570	-12	159	—	159
1981	119	7	126	11,042	- 1	127	—	127
1982	115	13	128	10,420	- 2	130	1	129
1983	110	11	121	7,861	- 8	129	1	127
1984	114	12	126	11,893	+11	115	--	115

(1) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984 — U.S. Energy Information Administration, Petroleum Supply Annuals.

U.S. SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports (1)	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	413	—	413	4,295	- 2	415	17	398
1948	464	—	464	6,172	+ 3	461	14	447
1949	494	—	494	7,358	+ 2	491	15	476
1950	578	—	578	8,012	+ 2	576	7	569
1951	651	—	651	8,854	+ 2	649	10	639
1952	695	—	695	8,445	- 1	696	11	685
1953	745	—	745	11,220	+ 8	737	11	726
1954	785	—	785	14,979	+11	774	12	762
1955	890	—	890	14,596	- 1	891	12	879
1956	942	—	942	21,952	+20	922	12	910
1957	954	—	954	23,480	+ 4	950	13	937
1958	965	—	965	24,959	+ 8	957	8	949
1959 (2)	1,067	—	1,067	27,407	+ 7	1,060	5	1,055
1960	1,141	5	1,146	32,554	+14	1,132	8	1,124
1961	1,207	5	1,212	43,365	+29	1,183	10	1,173
1962	1,232	6	1,238	36,154	-20	1,258	11	1,247
1963	1,359	7	1,366	37,633	+ 4	1,362	12	1,350
1964	1,446	11	1,457	39,371	+ 5	1,452	15	1,437
1965	1,502	21	1,523	39,542	—	1,523	22	1,501
1966	1,575	29	1,604	43,759	+12	1,592	24	1,568
1967	1,715	27	1,742	69,947	+74	1,668	25	1,643
1968	1,826	32	1,858	81,086	+32	1,826	29	1,797
1969	1,928	35	1,963	65,306	-45	2,008	35	1,973
1970	2,005	52	2,057	74,089	+25	2,032	27	2,005
1971	2,050	106	2,156	100,889	+73	2,083	26	2,057
1972	2,100	174	2,274	91,792	-25	2,299	31	2,268
1973	2,113	239	2,352	106,476	+41	2,311	27	2,284
1974	2,026	211	2,237	120,092	+37	2,200	25	2,175

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(1) Prior to 1960 figures included with gasoline.
(2) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

U.S. TOTAL SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES

(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(2)	Exports	Domestic Demand (3)
1975	1,944	185	2,129	132,653	+34	2,095	26	2,069
1976	1,944	197	2,141	124,518	-22	2,163	25	2,138
1977	1,970	203	2,173	144,902	+56	2,117	18	2,099
1978	1,921	139	2,060	140,052	-42	2,101	20	2,081
1979	1,924	230	2,154	125,289	-40	2,187	15	2,172
1980	1,897	216	2,113	137,551	+34	2,079	21	2,058
1981	1,905	254	2,159	150,170	+11(1)	2,148	42	2,106
1982	1,809	247	2,056	105,077	-124	2,180	65	2,115
1983	1,875	205	2,080	116,532	+470	1,610	73	1,537
1984	1,989	241	2,230	108,446	- 22	1,752	51	1,702

(1) The U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 146,145 thousand barrels. This figure was used to compute the 1981 stock change.

(2) Total demand excludes volume used as refinery inputs.

(3) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

Year	Supply: Production	Supply: Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Demand: Change in Stocks	Demand: Total Demand	Demand: Exports	Demand: Domestic Demand
1947	141	—	141	8,624	+ 2	139	41	98
1948	140	—	140	9,843	+ 5	135	37	98
1949	124	—	124	9,219	- 2	126	35	91
1950	141	—	141	7,849	- 4	145	39	106
1951	168	—	168	9,617	+ 4	164	48	116
1952	151	—	151	11,021	+ 3	148	44	104
1953	144	—	144	10,070	- 2	146	35	111
1954	145	—	145	9,702	- 1	146	41	105
1955	153	—	153	8,763	- 3	156	39	117
1956	161	—	161	10,183	+ 3	158	38	120
1957	152	—	152	10,864	+ 1	151	38	113
1958	140	—	140	9,687	- 3	143	35	108
1959 (1)	154	—	154	8,950	- 2	156	38	118
1960	162	—	162	9,874	+ 2	160	43	117
1961	162	—	162	12,943	+ 2	160	47	113
1962	168	—	168	13,130	—	168	48	120
1963	173	—	173	14,321	+ 3	170	50	120
1964	174	—	174	14,062	- 1	175	50	125
1965	172	—	172	13,304	- 2	174	45	129
1966	179	--	179	12,682	- 2	181	47	134
1967	178	—	178	14,774	+ 6	172	51	121
1968	180	—	180	14,023	- 2	182	49	133
1969	178	1	179	14,088	—	179	45	134
1970	181	1	182	14,712	+ 2	180	44	136
1971	179	—	179	15,049	+ 1	178	43	135
1972	179	1	180	13,271	- 5	185	41	144
1973	188	6	194	12,186	- 3	197	35	162
1974	194	5	199	16,060	+11	188	33	155

(1) These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

Section VII
Table 17a

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand(1)	Exports	Domestic Demand (1)
1975	154	3	157	14,337	-5	162	25	137
1976	169	4	173	12,274	-5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	-	198	27	171
1979	194	9	203	12,549	+1	202	23	179
1980	178	7	185	13,483	+3	182	23	160
1981	166	8	174	14,304	+2	172	19	153
1982	141	10	151	12,531	-5	156	16	140
1983	147	11	158	12,080	-3	162	16	146
1984	159	13	172	12,724	+2	170	15	156

(1) Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984 — U.S. Energy Information Administration, Petroleum Supply Annuals.

BASIC PETROLEUM DATA BOOK

SECTION VIII. REFINING

Table 1. Estimated Worldwide Crude Oil Refining Capacity by Area

Table 2 Worldwide Crude Oil Refinery Runs

Table 3. U.S. Crude Oil Refining Capacity

Table 4. Percentage Yields of Refined Petroleum Products From Crude Oil in the United States

Table 5. U.S. Crude Oil Refinery Runs by P.A.D. District-Domestic vs. Foreign

Table 6. Number and Capacity of U.S. Petroleum Refineries

Section VIII
Table 1

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States(1)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000(2)	9,119,034
1948	6,034,252	1,479,350	7,513,602	859,100	47,750	202,850	682,990	9,306,292	650,000(2)	9,956,292
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000(2)	11,109,245
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	11,361,500
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000(2)	12,023,744
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100(2)	12,979,085
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	14,247,520
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	15,391,577
1955	8,386,044	2,566,500	10,952,544	1,184,300	68,400	613,700	2,365,900	15,184,844	1,784,000	16,968,844
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	17,290,336
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	18,676,397
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	(3)	(3)
1959	8,761,446	3,680,500	13,441,946	1,432,800	100,100	1,229,600	3,633,200	19,837,646	(3)	(3)
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	23,830,324
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	(3)	(3)
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	(3)	(3)
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	(3)	(3)
1964	10,305,774	5,828,400	15,134,174	1,801,300	365,200	2,537,000	6,263,500	26,101,174	(3)	(3)
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	33,088,751
1966	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	34,296,439
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	(3)	(3)
1968	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	41,343,204
1969	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	45,194,209
1970	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	48,355,873
1971	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	53,183,528
1972	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	56,845,268
1973	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	59,282,384
1974	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	64,118,536
1975	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	67,551,454

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(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
(2) Estimates for U.S.S.R. only
(3) Data not available

Source: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"

Section VIII
Table 1a

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States[1]	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	71,809,515
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	75,180,964
1978	17,047,724	10,592,020	27,352,020	3,506,484	1,467,157	10,176,819	20,728,204	63,352,984	13,938,000	77,290,984
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	78,289,132
1980	17,988,121	10,683,671	28,671,792	3,518,080	1,666,108	10,386,375	20,243,747	64,486,102	15,346,000	79,832,102
1981	18,620,520	10,716,881	29,337,401	3,729,646	1,697,658	10,554,691	20,205,799	65,524,895	16,036,500	81,561,395
1982	17,889,734	10,720,055	28,609,789	3,312,152	1,761,870	10,966,825	19,444,519	64,095,155	16,533,000	80,628,155
1983	16,859,337	9,873,816	26,733,153	3,685,333	1,882,105	10,902,204	17,124,989	60,327,784	16,873,000	77,200,784
1984	16,137,141	9,590,962	25,520,962	3,901,082	1,879,990	10,473,079	16,231,932	58,114,186	17,200,000	75,314,186
1985	15,400,000	9,457,706	24,857,706	4,052,673	2,447,156	10,393,562	15,654,622	57,405,719	17,500,000	74,905,719

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(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity

Source: 1976-1984: United States: U.S. Energy Information Administration, Petroleum Refineries in the United States and Puerto Rico; Annual
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue
1985: Oil and Gas Journal, "Worldwide Report" issue

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416
Canada	975	1,040	1,070	1,135	1,190	1,280	1,395	1,535	1,675	1,765	1,700	1,710
Latin America	3,905	4,030	4,170	4,350	4,590	4,905	5,295	5,445	5,970	5,890	5,515	5,670
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020
South Asia	270	300	370	420	505	525	545	540	590	550	485	550
South East Asia	515	610	635	890	920	1,020	1,265	1,385	1,705	1,560	1,545	1,865
Japan	1,370	1,650	2,005	2,540	2,995	3,470	3,855	3,850	4,430	4,300	4,090	4,305
Australasia	375	415	465	500	510	565	565	575	620	625	635	655
Total Non-Communist World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575
Total World	30,508	32,959	35,230	38,592	41,649	45,515	48,090	50,471	54,926	54,423	52,902	56,691

Source: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

Section VIII
Table 2a

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1977	1978	1979	1980	1981	1982	1983	1984
United States	14,602	14,739	14,648	13,483	12,477	11,774	11,685	12,044
Canada	1,805	1,820	1,960	2,085	1,945	1,650	1,580	1,590
Latin America	5,715	5,975	6,220	6,460	6,575	6,080	5,825	5,825
Western Europe	13,550	13,505	14,160	12,925	11,890	11,480	10,925	11,025
Middle East	2,240	2,535	2,365	2,445	2,205	2,245	2,515	2,665
Africa	1,130	1,260	1,355	1,460	1,525	1,735	1,920	1,975
South Asia	605	645	675	705	795	840	880	890
South East Asia	2,030	2,330	2,450	2,370	2,480	2,335	2,380	2,420
Japan	4,375	4,240	4,340	4,015	3,630	3,360	3,255	3,355
Australasia	680	690	700	640	655	625	605	755
Total Non-Communist World	46,738	47,780	48,873	46,898	44,192	42,125	41,570	42,544
Communist Nations	11,930	12,875	13,230	13,320	13,420	13,575	13,675	13,610
Total World	58,668	60,655	62,103	60,218	57,590	55,700	55,245	56,154

Source: 1977-1984: U.S.-Energy Information Administration, Annual Petroleum Statements and Petroluem Supply Annuals.
Rest of World - BP Statistical Report of the World Oil Industry, Annual Report

U.S. CRUDE OIL REFINING CAPACITY
(AS OF JANUARY 1)

Year	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY		
	Operating	Shutdown	Total	Operating	Operable Shutdown	Inoperable Shutdown(1)
1947	361	38	399	5,336,399	233,083(2)	
1948	352	38	390	5,825,566	208,686(2)	
1949	336	39	375	6,230,505	208,490(2)	
1950	320	47	367	6,222,998	473,302(2)	
1951	325	32	357	6,701,815	261,829(2)	
1952	327	23	350	7,161,366	171,519(2)	
1953	315	28	343	7,481,701	138,019	18,941
1954	308	29	337	7,782,103	201,874	22,920
1955	296	30	326	8,069,154	316,890	34,586
1956	294	24	318	8,380,801	201,835	49,754
1957	298	21	319	8,808,841	262,856	51,977
1958	289	29	318	8,939,907	418,400	49,400
1959	291	22	313	9,450,741	310,705	58,400
1960	290	20	310	9,543,329	299,295	58,800
1961	289	22	311	9,629,685	368,888	11,500
1962	287	24	311	9,812,248	220,799	72,100
1963	287	21	308	9,814,791	196,130	107,400
1964	282	22	304	10,063,164	242,610	79,600
1965	273	27	300	10,161,311	258,540	354,744
1966	267	19	286	10,171,159	222,680	98,900
1967	260	21	281	10,412,447	245,960	101,200
1968	270	21	291	11,172,694	180,710	179,450
1969	264	20	284	11,575,829	126,480	37,200
1970	262	19	281	11,882,393	138,880	53,050
1971	253	26	279	12,658,248	201,980	159,750
1972	250	32	282	13,034,818	257,650	145,000
1973	253	28	281	13,482,909	188,475	132,200
1974	257	27	284	14,220,316	141,220	127,900
1975	262	28	290	14,696,750	263,960	208,100

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(1) Facilities inoperable, needing extensive reconditioning
(2) Not identified separately prior to 1953

Source: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual

U.S. CRUDE OIL REFINING CAPACITY(1)
(AS OF JANUARY 1)

Year	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY		
	Operating	Shutdown(3)	Total	Operating	Operable Shutdown	Inoperable Shutdown(2)
1976	265	22	287	14,867,529	369,092	190,900
1977	273	18	291	15,861,735	536,637	211,500
1978	290	12	302	16,793,724	254,000	182,223
1979	301	10	311	17,147,875	293,010	103,500
1980	311	8	319	17,612,652	376,469	N.A.
1981	315	9	324	18,051,260	569,260	N.A.
1982	254	47	301	16,103,579	1,786,155	N.A.
1983	233	25	258	14,960,647	1,898,690	N.A.
1984	214	33	247	14,837,685	1,299,456	N.A.
1985	199	24	223	14,360,583	1,298,186	N.A.

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(1) Does not include Puerto Rico refineries
(2) Facilities inoperable, needing extensive reconditioning
(3) Figures beginning with 1980 are for operable shutdown only

Source: U.S. Energy Information Administration, "Petroleum Refineries in the United States and U.S. Territories" Annual
Formerly Titled, "Petroleum Refineries in the United States and Puerto Rico" Annual
1982-1985: U.S. Energy Information Administration, Petroleum Supply Annuals

Section VIII
Table 4

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES-ANNUALLY 1964-1977

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6
Ethane (including Ethylene)	(2)	(2)	(2)	(2)	(2)	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0
Shortage(3)	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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(1) Other unfinished oils added to crude oil in computing yield
(2) Included with liquefied gases
(3) Processing Gain(-) or Loss(+)

Source: U.S. Energy Information Administration

Section VIII
Table 4a

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES

	1978	1979	1980	1981	1982	1983	1984
Gasoline	44.1	43.0	44.5	44.8	46.2	47.6	46.7
Jet Fuel	6.6	6.9	7.4	7.6	8.1	8.5	9.1
Ethane (including Ethylene)	0.1	0.1	-	0.1	-	-	-
Liquefied Gases	2.3	2.3	2.4	2.4	2.2	2.7	2.9
Kerosine	1.0	1.3	1.0	0.9	0.9	0.9	0.9
Distillate Fuel Oil	21.4	21.5	19.7	20.5	21.5	20.5	21.5
Residual Fuel Oil	11.3	11.5	11.7	10.4	8.8	7.1	7.1
Petrochemical Feedstocks	4.1	4.7	5.1	4.7	3.4	3.3	2.8
Special Naphthas	0.7	0.6	0.7	0.6	0.4	0.5	0.4
Lubricants	1.3	1.3	1.3	1.3	1.2	1.2	1.3
Wax	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Coke	2.5	2.6	2.7	3.1	3.4	3.5	3.5
Asphalt	3.2	3.1	2.9	2.7	2.7	3.1	3.1
Road Oil	0.1	-	0.1	-	-	(4)	(4)
Still Gas	3.7	3.8	4.0	4.3	4.6	4.6	4.5
Miscellaneous	0.9	0.8	0.8	0.7	0.7	0.5	0.5
Shortage(2)	-3.4	-3.6	-4.4	-4.0	-4.4	-4.1	-4.4
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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(1) Other unfinished oils added to crude oil in computing yield
(2) Processing Gain (-) or Loss (+)
(3) Totals may not add due to independent rounding
(4) Included in asphalt.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984--U.S. Energy Information Administration, Petroleum Supply Annuals.

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT-DOMESTIC vs FOREIGN
(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL	
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1947	648	265	1,312	-	1,889	2	133	-	826	-	4,808	267
1948	640	326	1,418	-	2,154	13	151	-	895	-	5,258	339
1949	486	374	1,404	-	1,973	46	165	-	876	3	4,904	423
1950	545	459	1,594	-	2,053	23	185	-	880	-	5,257	482
1951	641	477	1,796	1	2,398	10	215	-	947	10	5,997	498
1952	618	517	1,845	3	2,463	12	223	-	958	31	6,107	563
1953	601	552	1,949	7	2,601	8	235	-	975	71	6,361	638
1954	549	585	1,953	7	2,594	12	238	-	970	51	6,304	655
1955	530	633	2,119	18	2,832	30	255	-	968	95	6,704	776
1956	559	669	2,224	54	3,010	32	268	(1)	943	178	7,004	933
1957	640	656	2,219	60	2,898	24	273	(1)	900	249	6,930	989
1958	555	644	2,224	71	2,760	43	266	(1)	892	188	6,697	946
1959	574	641	2,340	59	2,922	27	290	(1)	902	238	7,028	965
1960	550	667	2,349	66	2,978	6	285	(1)	891	275	7,053	1,014
1961	573	650	2,347	86	3,020	6	284	(1)	910	308	7,134	1,050
1962	546	668	2,366	97	3,174	4	303	(1)	898	354	7,287	1,123
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195
1965	489	711	2,533	112	3,506	(1)	317	13	957	405	7,802	1,241
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120
1968	596	707	2,744	214(2)	4,116	2	339	27	1,243	324	9,038	1,274
1969	560	749	2,773	240(2)	4,263	(1)	351	35	1,267	391	9,214	1,415
1970	706	584	2,844	310(2)	4,357	-	345	47	1,297	380	9,549	1,321
1971	649	682	2,853	377(2)	4,438	54	360	45	1,239	503	9,539	1,661
1972	347	971	2,850	461(2)	4,741	75	360	37	1,193	661	9,491	2,205
1973	237	1,264	2,774	711(2)	4,656	398	372	44	1,167	808	9,206	3,225
1974	236	1,173	2,654	679(2)	4,317	786	376	44	1,098	770	8,681	3,452
1975	166	1,242	2,637	775(2)	4,078	1,182	380	45	1,086	851	8,347	4,095

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(1) Less than 1,000 barrels daily
(2) Includes some Athabasca hydrocarbons

Source: Bureau of Mines, Annual Petroleum Statements

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT-DOMESTIC vs FOREIGN
(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL	
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1976	170	1,416	2,611	989(2)	3,957	1,760	391	50	1,038	1,034	8,167	5,249
1977	136	1,538	2,386	1,393	3,886	2,460	426	54	1,199	1,124	8,033	6,569
1978	205	1,513	2,392	1,416	3,802	2,636	433	54	1,660	627	8,493	6,246
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379
1980	221	1,233	2,098	1,198	3,645	2,298	394	47	1,903	445	8,261	5,221
1981(3)	205	1,126	2,181	785	3,630	1,951	390	33	1,900	300	8,306	4,195
1982	211	982	2,161	621	3,876	1,522	374	41	1,888	191	8,510	3,357

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(2) Includes some Athabasca hydrocarbons.

(3) Beginning with 1981, figures are for refinery receipts of crude oil

Source: U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual
1981-1982—U.S. Energy Information Administration, Petroleum Supply Annual

Section VIII
Table 6

NUMBER AND CAPACITY OF U.S. PETROLEUM REFINERIES
As of January 1, 1985

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
	Total	Operating	Idle[1]	Barrels Per Calendar Day: Operating	Barrels Per Calendar Day: Idle	Barrels Per Stream Day: Operating	Barrels Per Stream Day: Idle	Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled)	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
East Coast	18	14	4	1,257,600	215,050	1,329,500	228,500	778,400	102,000	603,800	71,600	373,850	74,000	984,316
Delaware	1	1	0	140,000	0	150,000	0	95,000	54,000	60,000	15,000	56,000	19,000	110,000
Georgia	2	2	0	28,500	0	31,800	0	0	0	0	0	0	0	2,016
Maryland	1	0	1	0	14,200	0	15,000	14,300	0	0	0	0	0	0
New Jersey	6	5	1	414,400	156,000	441,700	165,000	320,100	34,500	274,000	45,000	125,500	0	434,500
New York: East	1	0	1	0	41,850	0	45,000	27,000	0	0	0	0	0	0
North Carolina	1	0	1	0	3,000	0	3,500	0	0	0	0	0	0	0
Pennsylvania: East	4	4	0	622,100	0	652,000	0	294,000	0	242,300	9,100	183,600	55,000	413,300
Virginia	2	2	0	52,000	0	54,000	0	28,000	13,500	27,500	2,500	8,750	0	24,500
Appalachian #1	8	7	1	112,711	180	118,500	200	48,575	0	18,000	200	27,620	4,440	38,820
New York: West	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania: West	6	5	1	96,041	180	101,000	200	38,900	0	18,000	200	23,870	0	38,820
West Virginia	2	2	0	16,670	0	17,500	0	9,675	0	0	0	3,750	4,440	0
PAD District 1 Total	26	21	5	1,369,711	215,230	1,448,000	228,700	826,975	102,000	621,800	71,800	401,470	78,440	1,023,136
Appalachian #2	1	1	0	66,000	0	68,000	0	33,000	0	25,000	0	20,000	0	50,000
Ind., Ill., Ky.	27	25	2	1,996,900	254,600	2,102,500	268,000	895,980	212,700	837,000	112,700	620,900	148,500	1,147,500
Illinois	8	7	1	706,500	254,000	752,600	267,000	381,700	105,700	374,000	17,400	310,400	66,500	575,800
Indiana	6	6	0	442,300	0	458,500	0	231,280	22,000	168,000	8,200	84,500	0	211,700
Kentucky	4	3	1	221,900	600	229,800	1,000	90,000	57,600	60,000	40,000	46,000	0	153,300
Michigan	4	4	0	116,500	0	124,600	0	26,000	0	45,000	1,300	31,000	0	36,700
Ohio: West	4	4	0	449,700	0	472,000	0	155,000	27,400	160,000	33,800	139,700	82,000	140,500
Tennessee	1	1	0	60,000	0	65,000	0	12,000	0	30,000	12,000	9,300	0	29,500
Minn., Wisc., Daks.	5	4	1	301,143	5,000	311,220	5,000	147,000	49,500	113,500	7,200	71,000	0	209,950
Minnesota	2	2	0	204,143	0	211,220	0	132,000	48,000	78,000	1,000	51,000	0	178,200
North Dakota	2	1	1	58,000	5,000	60,000	5,000	0	1,500	26,000	5,200	12,000	0	16,950
Wisconsin	1	1	0	39,000	0	40,000	0	15,000	0	9,500	1,000	8,000	0	14,800
Okla., Kansas, Mo.	13	12	1	711,450	7,600	745,883	8,500	234,500	82,300	259,000	17,400	187,300	8,190	291,400
Kansas	7	7	0	337,450	0	355,383	0	100,500	52,000	125,500	11,000	90,300	3,190	144,400
Oklahoma	6	5	1	374,000	7,600	390,500	8,500	134,000	30,300	133,500	6,400	97,000	5,000	147,000
PAD District II Total	46	42	4	3,075,493	267,200	3,227,603	281,500	1,310,480	344,500	1,234,500	137,300	899,200	156,690	1,698,850
Texas Inland	17	16	1	553,250	11,850	581,250	12,500	184,975	24,800	216,100	23,700	145,700	0	278,200
Texas Gulf Coast	22	19	3	3,382,874	322,900	3,572,494	337,100	1,646,200	331,300	1,396,000	130,650	922,100	194,000	2,794,100
Louisiana Gulf Coast	19	15	4	2,446,500	128,156	2,553,350	139,500	1,142,000	459,900	820,900	45,300	559,300	203,700	1,278,000
Alabama: Gulf	2	1	1	80,000	26,600	81,300	28,000	30,000	0	0	0	21,000	0	48,000
Louisiana: Gulf	16	13	3	2,071,500	101,556	2,162,050	111,500	869,000	397,900	764,900	43,300	448,300	135,700	1,041,000
Mississippi: Gulf	1	1	0	295,000	0	310,000	0	243,000	62,000	56,000	2,000	90,000	68,000	189,000
North La., Ark.	16	15	1	235,800	21,980	250,315	22,900	122,945	18,500	34,000	7,775	41,700	0	83.000
Alabama: Inland	2	1	1	33,500	9,500	35,000	10,000	19,000	10,000	0	0	6,000	0	21,500
Arkansas	4	4	0	53,000	12,480	54,350	12,900	32,020	0	18,000	775	9,000	0	18,000
Louisiana: Inland	5	5	0	75,900	0	81,965	0	28,050	0	0	0	20,900	0	32,200
Mississippi: Inland	5	5	0	73,400	0	79,000	0	43,675	8,500	16,000	7,000	5,800	0	11,300
New Mexico	4	4	0	68,200	0	71,700	0	11,900	0	27,100	6,100	17,600	0	28,600
PAD District III Total	78	69	9	6,686,624	484,886	7,029,109	512,000	3,108,020	834,500	2,494,100	213,525	1,686,400	397,700	4,461,910
Colorado	3	3	0	82,700	0	103,400	0	37,000	4,500	23,000	1,000	20,400	6,000	28,700
Montana	6	5	1	135,150	13,400	139,950	14,000	41,250	9.700	52,100	6,600	39,800	4,900	120,400
Utah	7	6	1	155,500	6,000	161,500	7,000	45,500	8,500	54,800	10,600	25,500	0	35,600
Wyoming	6	6	0	172,005	0	177,750	0	75,400	9,000	61,000	15,700	31,250	0	48,800
PAD District IV Total	22	20	2	545,355	19,400	582,500	21,000	199,150	31,700	190,900	33,900	116,950	10,900	233,500
Alaska	4	4	0	139,000	0	142,553	0	6,000	0	0	0	12,000	7,500	0
California	37	34	3	2,080,600	296,470	2,106,146	325,400	1,305,800	486,500	576,950	27,050	530,030	353,200	1,285,440
Hawaii	1	1	0	48,000	0	50,000	0	28,000	0	22,000	0	0	0	3,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	0	1	0	15,000	0	16,000	16,000	0	0	0	0	0	0
Washington	7	7	0	411,300	0	429,254	0	195,000	59,000	91,500	23,000	103,800	49,000	190,300
PAD District V Total	51	47	4	2,683,400	311,470	2,832,653	341,400	1,553,300	545,500	690,450	50,050	645,830	409,700	1,479,240
United States Total	223	199	24	14,380,583	1,298,186	15,119,865	1,384,600	6,997,925	1,858,200	5,231,750	506,575	3,749,850	1,053,430	8,896,636

[1] Refineries where distillation units are completely idle but not permanently shutdown on January 1, 1985.

Source: U.S. Energy Information Administration, Petroleum Supply Annual

BASIC PETROLEUM DATA BOOK

SECTION IX. IMPORTS

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Section IX
Table 1

THE SHARE OF IMPORTS IN U.S. DOMESTIC PETROLEUM DEMAND
(Thousands of Barrels)

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1947	159,389	1,989,803	8.0
1948	188,144	2,113,678	8.9
1949	235,559	2,118,250	11.1
1950	310,261	2,392,974	13.0
1951	308,194	2,578,766	11.9
1952	348,507	2,668,134	13.1
1953	377,499	2,776,778	13.6
1954	383,955	2,833,896	13.5
1955	455,564	3,089,348	14.7
1956	525,591	3,214,651	16.3
1957	574,589	3,221,949	17.8
1958	620,589	3,327,993	18.6
1959	649,583	3,477,173	18.7
1960	664,111	3,585,820	18.5
1961	699,666	3,641,280	19.2
1962	759,793	3,796,029	20.0
1963	774,713	3,921,364	19.8
1964	826,736	4,034,236	20.5
1965	900,772	4,202,039	21.4
1966	939,162	4,410,796	21.3
1967	925,991	4,584,526	20.2
1968	1,039,369	4,901,789	21.2
1969	1,155,551	5,159,930	22.4
1970	1,248,062	5,364,473	23.3
1971	1,432,880	5,552,560	25.8
1972	1,735,314	5,990,316	29.0
1973	2,283,493	6,317,303	36.1
1974	2,230,947	6,078,239	36.7
1975	2,210,335	5,957,515	37.1
1976	2,676,411	6,390,750	41.9
1977	3,207,106(1)	6,727,468	47.7
1978	2,993,847(1)	6,879,017	43.5
1979	3,062,053(1)	6,757,077	45.3
1980	2,512,636(1)	6,242,445	40.3
1981	2,095,122(1)	5,861,058	35.7
1982	1,806,165(1)	5,582,938	32.4
1983	1,758,457(1)	5,559,364	31.6
1984	1,917,897(1)	5,755,575	33.3

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(1) Excludes crude oil imports into Strategic Petroleum Reserve: 1977 - 7,540; 1978 - 58,798; 1979 - 23,434; 1980 - 16,067; 1981 - 93,298; 1982 - 60,193; 1983 - 85,285; 1984 - 72,038

Source: U.S. Energy Information Administration; Annual Petroleum Statements.
1981-1984 - U.S. Energy Information Administration; Petroleum Supply Annuals

Section IX
Table 2

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

	IMPORTS					Production		
Year	Crude Oil	Unfinished Oils	Plant Condensate	Refined Products	Total All Imports	Crude Oil and Condensate	Natural Gas Liquids	Total
1947	97,532	(1)	(2)	61,857	159,389	1,856,987	132,173	1,989,160
1948	129,093	(1)	(2)	59,051	188,144	2,020,185	146,721	2,168,906
1949	153,686	(1)	(2)	81,873	235,559	1,841,940	157,086	1,999,026
1950	177,714	(1)	(2)	132,547	310,261	1,973,574	181,961	2,155,535
1951	179,073	(1)	(2)	129,121	308,194	2,247,711	204,754	2,452,465
1952	209,591	(1)	(2)	138,916	348,507	2,289,836	223,515	2,513,351
1953	236,455	(1)	(2)	141,044	377,499	2,357,082	238,579	2,595,661
1954	239,479	(1)	(2)	144,476	383,955	2,314,988	252,133	2,567,121
1955	285,421	(1)	(2)	170,143	455,564	2,484,428	281,371	2,765,799
1956	341,833	(1)	(2)	183,758	525,591	1,617,283	292,727	2,910,010
1957	373,255	(1)	(2)	201,334	574,589	2,616,901	294,990	2,911,891
1958	348,007	(1)	(2)	272,582	620,589	2,448,987	294,749	2,743,736
1959	352,344	23,072	(2)	274,167	649,583	2,574,590	320,757	2,895,347
1960	371,575	16,478	(2)	276,058	664,111	2,574,933	340,157	2,915,090
1961	381,548	25,348	(2)	292,770	699,666	2,621,758	361,689	2,983,447
1962	411,039	32,516	(2)	316,238	759,793	2,676,189	372,705	3,048,894
1963	412,660	31,702	(2)	330,351	774,713	2,752,723	400,886	3,153,609
1964	438,643	32,587	(2)	355,506	826,736	2,786,822	422,471	3,209,293
1965	452,040	33,706	(2)	415,026	900,772	2,848,514	441,556	3,290,070
1966	447,120	35,236	(2)	456,806	939,162	3,027,763	468,635	3,496,398
1967	411,649	35,225	(2)	479,117	925,991	3,215,742	514,456	3,730,198
1968	472,323	29,350	(2)	537,696	1,039,369	3,329,042	550,311	3,879,353
1969	514,114	38,766	(2)	602,671	1,155,551	3,371,751	580,241	3,951,992
1970	483,293	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366
1971	613,417	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729
1972	811,135	45,705	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584
1973	1,183,996	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326
1974	1,269,155	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683

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(1) Separate data not available prior to 1959
(2) Separate data not available prior to 1970

SOURCE: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues

Section IX
Table 2a

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

	IMPORTS					Production		
Year	Crude Oil	Unfinished Oils	Plant Condensate	Refined Products(4)	Total All Imports	Crude Oil and Condensate	Natural Gas Liquids	Total
1975	1,498,181	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737
1976	1,935,012	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225
1977	2,414,327(3)	11,239	15,003	774,077	3,214,646	3,009,265	590,455	3,599,720
1978	2,319,826(3)	9,913	6,017	716,889	3,052,645	3,178,216	572,086	3,750,302
1979	2,379,541(3)	21,372	4,729	680,825	3,086,487	3,121,310	578,023	3,699,333
1980	1,926,162(3)	20,015	3,781	598,745	2,548,703	3,146,365	575,787	3,722,152
1981	1,604,703(3)	40,793	3,658	539,265	2,188,419	3,128,624	587,119	3,715,743
1982	1,273,214(3)	63,657	2,292	527,195	1,866,358	3,156,715	565,876	3,722,591
1983	1,215,225(3)	85,580	2,355	540,584	1,843,744	3,170,999	568,926	3,739,925
1984	1,253,949(3)	84,496	N.A.	651,491	1,989,935	3,249,696	596,477	3,846,173

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(3) Includes SPR crude oil imports--1977-7,540; 1978-58,798; 1979-23,434; 1980-16,067; 1981-93,298; 1982-60,193; 1983-85,285; 1984-72,038

(4) Excludes unfinished oils and plant condensate.

SOURCE: U.S. Energy Informaton Administration, Annual Petroleum Statement.
1981-1984--U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1947	97,146	—	386	—	97,532
1948	105,912	—	23,181	—	129,093
1949	116,736	—	36,950	—	153,686
1950	136,096	—	41,618	—	177,714
1951	138,074	—	37,501	3,498	179,073
1952	147,771	—	56,556	5,264	209,591
1953	141,552	—	80,930	13,969	236,451
1954	148,010	—	77,764	13,705	239,479
1955	173,166	—	100,344	11,941	285,451
1956	225,007	—	103,517	13,309	341,833
1957	261,736	—	87,798	23,719	373,253
1958	199,256	—	123,091	25,732	348,079
1959	212,707	—	115,875	23,762	352,344
1960	230,229	1,451	113,175	26,720	371,575
1961	237,995	1,887	118,997	22,669	381,548
1962	267,680	9,808	109,071	24,480	411,039
1963	278,933	9,173	103,214	21,340	412,660
1964	289,012	17,743	108,841	23,047	438,643
1965	283,377	24,585	121,908	22,170	452,040
1966	289,800	31,543	107,579	18,198	447,120
1967	301,002	20,151	67,977	22,519	411,649
1968	315,977	57,461	72,330	26,555	472,323
1969	337,847	82,380	61,616	32,271	514,114
1970	351,356	44,365	61,892	25,670	483,293
1971	378,102	68,361	124,155	42,779	613,397
1972	421,799	172,105	155,982	61,249	811,135
1973	532,238	285,481	292,988	73,289	1,183,996
1974	446,534	356,121	362,186	104,314	1,269,155

Source: U.S. Bureau of Mines, Crude Petroleum, Petroleum products and Natural Gas Liquids, Annual and December issues.

Section IX
Table 3a

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1975	453,772	488,515	409,496	146,398	1,498,181
1976	316,202	716,661	681,189	220,965	1,935,012
1977	328,468	912,631	910,744	262,484	2,414,327
1978	345,624	830,773	832,305	311,124	2,319,826
1979	436,525	910,644	765,249	267,123	2,379,541
1980	379,813	731,342	561,248	253,759	1,926,162
1981	352,373	486,768	447,518	318,044	1,604,703
1982	430,885	282,706	248,560	311,163	1,273,214
1983	497,237	247,555	160,221	310,213	1,215,225
1984	508,983	225,929	168,336	350,701	1,253,949

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984 -- U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 4

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Argentina	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--	--	268	545	--
Canada	--	--	--	--	463	1,116	2,527	2,565	16,810	42,739	55,131	30,426	33,730	41,349
Chile	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Colombia	10,944	8,542	11 678	16,159	16,312	16,209	15,860	12,415	8,125	9,009	8,366	9,411	12,437	14,799
Curacao and Aruba	5,125	4,707	613	611	--	--	--	371	487	--	--	--	--	--
Ecuador	--	--	--	--	--	--	90	300	474	368	933	--	--	--
Mexico	5,578	3,601	4,797	12,307	13,862	8,483	2,897	3,018	5,510	4,666	2,441	672	112	925
Peru	--	--	--	--	--	--	--	608	855	609	--	192	--	--
Trinidad	--	--	--	--	--	--	--	356	121	566	1,111	120	--	269
Venezuela	75,499	89,062	99,648	107,019	107,437	121,963	120,178	128,377	140,754	167,050	193,756	158,167	165,883	172,887
Total Western Hemisphere	97,146	105,912	116,736	136,096	138,074	147,771	141,552	148,010	173,136	225,007	261,738	199,256	212,707	230,229
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	284
Angola	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--	--	--	1,167
Gabon	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tunisia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	1,451
Abu Dhabi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iran	--	4,507	1,107	111	--	--	--	204	3,202	7,257	6,624	5,348	8,961	13,056
Iraq	--	766	341	--	--	705	2,287	2,188	6,988	9,650	4,477	8,972	7,667	6,363
Kuwait	111	3,442	23,445	26,741	21,601	26,444	38,611	41,046	48,954	50,953	51,389	68,098	59,169	47,512
Neutral Zone	--	--	--	--	--	--	--	2,983	6,639	3,072	2,050	12,007	15,091	16,363
Qatar	--	--	--	116	--	--	3,368	3,524	5,511	4,915	2,247	1,513	231	1,649
Saudi Arabia	275	14,466	12,057	14,650	15,900	29,407	36,668	27,819	29,050	27,670	21,011	27,081	24,756	28,232
Total Middle East	386	23,181	36,950	41,618	37,501	56,556	80,934	77,764	100,344	103,517	87,798	123,019	115,875	113,175
Borneo	--	--	--	--	3,498	1,624	--	--	--	--	--	4,679	3,739	--
Australia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia (Sumatra)	--	--	--	--	--	3,640	13,969	13,705	11,941	13,309	23,719	21,053	20,023	26,720
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Far East	--	--	--	--	3,498	5,264	13,969	13,705	11,941	13,309	23,719	25,732	23,762	26,720
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	386	23,181	36,950	41,618	40,999	61,820	94,903	91,469	112,285	116,826	111,517	148,751	139,637	141,346
ANNUAL TOTAL	97,532	129,093	153,686	177,714	179,073	209,591	236,455	239,479	285,421	341,833	373,255	348,007	352,344	371,575

Source: U.S. Bureau of Mines, Annual Petroleum Statements

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Argentina	—	—	—	—	—	—	—	—	—	—	—
Bolivia	—	—	—	—	—	1,237	7,016	6,866	5,596	534	798
Brazil	1,773	1,277	2,052	—	—	—	—	—	—	—	—
Canada	66,614	85,152	90,394	101,607	107,762	126,712	150,409	169,418	203,298	245,258	263,294
Chile	—	—	—	—	—	—	633	1,975	1,464	—	261
Colombia	10,050	8,614	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175
Curacao and Aruba	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Mexico	3,655	3,644	3,657	3,577	2,552	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	216	—	—
Trinidad	152	—	—	—	—	—	—	—	—	265	—
Venezuela	155,751	168,993	174,537	174,012	157,852	147,427	131,089	125,737	111,722	97,996	110,574
Total Western Hemisphere	237,995	267,680	278,933	289,167	283,377	289,800	301,002	315,977	337,847	351,366	378,102
Algeria	—	1,543	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685
Angola	—	—	—	—	—	—	—	—	424	—	1,301
Egypt	1,887	1,543	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924
Gabon	—	—	—	—	—	—	661	—	—	—	—
Libya	—	6,722	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426
Nigeria	—	—	—	—	5,296	4,114	1,432	3,131	17,958	17,490	34,826
Tunisia	—	—	—	—	—	—	—	—	—	—	1,199
Total Africa	1,887	9,808	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361
Abu Dhabi/ United Arab Emirates(5)	—	—	—	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026
Iran	21,970	17,735	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576
Iraq	7,362	856	321	—	5,695	9,447	1,716	—	—	—	3,932
Kuwait	44,311	40,749	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650
Neutral Zone	19,278	15,837	15,855	17,565	9,756	7,028	4,006	10,749	15,864	—	—
Qatar	3,575	9,535	5,835	7,294	4,346	176	—	—	191	—	—
Saudi Arabia	22,501	24,359	28,806	35,464	48,235	45,771	29,679	18,959	12,665	14,538	41,971
Total Middle East	118,997	109,071	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155
Australia	—	—	—	—	—	—	—	—	—	—	2,567
Indonesia (Sumatra)	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Total Far East	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799
U.S.S.R.	—	—	—	—	—	—	—	—	—	—	—
Total Eastern Hemisphere	143,553	143,359	133,727	149,631	168,663	157,320	110,647	156,346	176,267	131,927	235,315
ANNUAL TOTAL	381,548	411,039	412,660	438,643	452,040	447,120	411,649	472,323	514,114	483,293	613,417

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(5) Figures from 1947-1971 reflect Abu Dhabi only. Beginning 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates.

Source: U.S. Bureau of Mines, December and Annual Petroleum Statements

Section IX
Table 4b

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Bolivia	—	891	2,467	1,940	1,849	1,271	308	328	301	—	—
Canada	312,440	365,370	288,763	219,175	135,690	101,778	90,490	99,081	73,002	59,904	76,041
Colombia	1,695	778	—	—	2,041	—	—	—	—	—	—
Ecuador	5,331	17,229	15,225	20,679	18,671	20,229	13,910	11,010	6,129	13,967	11,788
Mexico	—	489	597	25,660	31,670	64,711	115,426	159,616	185,541	171,363	235,298
Trinidad	8,626	21,739	23,045	42,097	38,142	48,841	51,974	44,950	42,011	37,186	33,541
Venezuela	93,300	125,742	116,437	144,221	88,139	91,331	66,125	106,794	56,950	53,590	56,434
Total Western Hemisphere	421,799	532,238	446,534	453,772	316,202	328,468	345,624	436,525	379,813	352,373	430,885
United Kingdom	—	—	—	125	4,923	35,583	61,555	71,923	63,459	134,766	161,061
Netherlands	—	—	—	1,500	—	1,509	846	2,685	22	1	3
Norway	—	—	322	4,552	12,881	17,628	37,815	27,523	52,727	41,452	37,299
Total Europe	—	—	322	6,177	17,804	54,720	100,216	102,131	116,208	176,315	198,365
Algeria	31,573	43,619	65,764	96,459	149,190	198,468	231,253	222,042	166,980	95,165	32,714
Angola	5,785	17,753	17,536	26,051	2,426	6,150	2,290	14,088	13,389	16,528	15,248
Congo (Brazzaville)	—	—	—	—	3,142	2,440	5,454	909	2,658	1,276	456
Egypt	3,091	5,296	3,227	1,687	6,311	13,034	7,395	20,205	11,249	12,155	14,683
Gabon	—	—	8,552	9,811	9,685	12,632	13,841	15,328	9,062	12,663	14,429
Libya	40,069	48,585	1,495	81,403	162,457	256,984	232,897	234,173	200,406	115,572	8,452
Nigeria	88,887	163,687	254,358	272,265	370,962	412,498	332,035	390,116	307,840	222,981	186,329
Tunisia	2,520	6,541	4,519	839	5,400	10,425	4,460	6,429	2,801	4,104	3,481
Zaire	—	—	—	—	7,088	—	263	1,379	4,690	5,977	6,914
Total Africa	172,105	285,481	356,121	488,515	716,661	912,631	830,773	910,644	731,342	486,768	282,706
United Arab Emirates	26,873	25,764	25,158	42,585	93,105	121,640	140,653	102,709	63,052	27,950	29,509
Iran	49,700	78,990	168,956	101,575	109,073	193,415	202,357	108,269	3,086	—	12,854
Iraq	1,315	1,529	—	707	9,542	26,894	22,673	32,052	10,328	—	974
Israel	—	—	—	—	2,368	—	—	—	—	—	—
Kuwait	13,205	15,208	1,820	1,444	451	15,434	1,718	1,898	9,712	—	904
Oman	—	—	—	492	10,943	27,140	22,240	13,466	8,693	8,702	8,183
Qatar	1,263	2,663	6,189	6,657	8,631	24,281	23,224	11,450	7,920	2,665	2,600
Saudi Arabia	63,626	168,525	159,827	256,036	447,071	501,072	416,910	491,514	457,671	406,059	193,536
Total Middle East	155,982	292,988	362,186	409,496	681,184	910,744	832,305	765,249	561,248	447,516	248,560
Australia	327	—	—	—	—	—	—	—	—	—	—
Indonesia	59,633	73,055	103,482	138,270	196,599	184,984	194,620	138,528	114,990	116,126	82,315
Malaysia	966	234	510	1,951	5,914	20,257	13,677	18,954	22,213	12,143	6,574
Total Far East	60,926	73,289	103,992	140,221	202,513	207,089	210,632	159,933	137,551	128,269	90,023
U.S.S.R.	323	—	—	—	648	675	276	—	—	—	—
Total Eastern Hemisphere	389,336	651,758	822,621	1,044,409	1,618,810	2,085,859	1,974,202	1,943,016	1,546,349	1,252,330	842,429
ANNUAL TOTAL	811,135	1,183,996	1,269,155	1,498,181	1,935,012	2,414,327	2,319,826	2,379,541	1,926,162	1,604,703	1,273,214

Source: Energy Information Administration, Annual Petroleum Statements.
1981-1982 — Energy Information Administration, Petroleum Supply Annual.

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1983	1984
Bolivia	1,361	260
Canada	100,142	124,687
Colombia	0	0
Ecuador	20,594	17,066
Mexico	279,703	241,054
Trinidad & Tobago	30,207	31,939
Venezuela	59,854	92,728
Total Western Hemisphere	497,237	508,983
United Kingdom	133,142	138,246
Netherlands	1,039	1,046
Norway	23,836	40,927
Total Europe	193,529	180,219
Algeria	64,274	71,074
Angola	25,763	31,172
Congo	6,616	12,226
Egypt	8,958	3,485
Libya	21,415	20,838
Nigeria	109,807	75,669
Tunisia	2,564	4
Zaire	8,158	11,460
Total Africa	247,555	225,929
United Arab Emirates	6,641	32,966
Iran	15,757	3,706
Iraq	3,758	4,554
Israel	0	0
Kuwait	2,641	8,780
Oman	12,281	3,755
Qatar	0	1,497
Saudi Arabia	160,221	168,336
Australia	0	9,177
Indonesia	115,156	111,404
Malaysia	930	0
Total Far East	116,683	126,196
U.S.S.R.	0	0
Total Eastern Hemisphere	717,988	744,966
ANNUAL TOTAL	1,215,225	1,253,949

Source: U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annuals

U.S. IMPORTS OF CRUDE OIL BY P.A.D. DISTRICTS
(Thousands of Barrels)

Year	P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil
1952(1)	192,349	1,116	4,423	—	11,703	209,591
1953	202,611	2,562	2,871	—	28,411	236,455
1954	213,413	2,772	4,553	—	18,741	239,479
1955	232,850	7,425	11,098	—	34,048	285,421
1956	244,453	19,904	11,917	70	65,489	341,833
1957	247,395	22,296	8,726	86	94,749	373,255
1958	238,769	25,328	16,242	13	67,655	348,007
1959	235,259	21,279	10,184	15	85,607	352,344
1960	244,196	23,265	2,939	20	101,155	371,575
1961	236,905	30,971	2,354	30	111,288	381,548
1962	244,235	34,646	2,489	682	128,987	411,039
1963	248,199	34,666	1,698	3,528	124,569	412,660
1964	252,527	37,801	1,835	4,409	142,071	438,643
1965	258,361	41,264	—	4,807	147,608	452,040
1966	259,499	48,114	449	4,954	134,104	447,120
1967	216,920	56,408	672	6,648	131,001	411,649
1968	263,866	78,365	741	10,058	119,393	472,323
1969	269,007	88,434	--	12,714	143,959	514,114
1970	211,403	115,613	—	17,573	138,704	483,293
1971	252,088	137,064	20,449	16,869	186,947	613,417
1972	354,549	171,338	28,331	14,126	242,791	811,135
1973	466,074	260,368	145,654	16,132	295,768	1,183,996
1974	428,608	250,771	289,999	16,579	283,198	1,269,155
1975	451,549	282,658	437,049	16,090	310,835	1,498,181
1976	517,840	366,107	651,381	19,876	379,806	1,935,012
1977(2)	553,955	516,775	927,596	15,957	400,044	2,414,327
1978(2)	542,856	494,132	1,045,691	18,132	219,015	2,319,826
1979(2)	522,580	556,861	1,083,749	23,656	192,695	2,379,541
1980(2)	491,292	409,533	854,233	14,268	156,836	1,926,162
1981(2)	407,384	248,393	828,287	10,513	110,126	1,604,703
1982(2)	349,583	211,727	628,591	14,625	68,687	1,273,214
1983(2)	298,070	193,427	632,974	13,959	76,794	1,215,225
1984(2)	345,642	182,565	639,238	12,233	74,271	1,253,949

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(1) Figures not available by P.A.D.D. prior to 1952.
(2) Figures include crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Bureau of Mines, 1952-1972 Minerals Yearbook
U.S. Energy Information Administration 1973-1980 Annual Petroleum Statements
U.S. Energy Information Administration 1981-1984 -- Petroleum Supply Annuals

Section IX
Table 6

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of Barrels)

Year(2)	P.A.D.D. I Residual Fuel Oil	P.A.D.D. I Distillate Fuel Oil	P.A.D.D. II Residual Fuel Oil	P.A.D.D. II Distillate Fuel Oil	P.A.D.D. III Residual Fuel Oil	P.A.D.D. III Distillate Fuel Oil	P.A.D.D. IV Residual Fuel Oil	P.A.D.D. IV Distillate Fuel Oil	P.A.D.D. V Residual Fuel Oil	P.A.D.D. V Distillate Fuel Oil	Totals Residual Fuel Oil	Totals Distillate Fuel
1950	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	120,036	2,602
1951	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	119,166	1,767
1952	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	128,479	2,742
1953	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	131,533	3,379
1954	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	129,124	3,195
1955	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	152,035	4,413
1956	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	162,869	5,159
1957	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	173,229	8,566
1958	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	182,306	14,892
1959	219,341	17,283	230	13	2,961	360	1	2	18	0	222,571	17,658
1960	211,788	11,365	59	12	14,416	1,298	0	96	6,945	0	233,208	12,771
1961	214,453	15,533	284	24	12,320	1,654	1	142	16,210	24	243,268	17,377
1962	237,565	9,611	610	31	11,775	1,892	47	92	14,317	5	264,314	11,831
1963	252,785	7,787	800	63	12,327	1,250	26	1	6,815	9	272,753	9,110
1964	274,306	10,559	804	64	11,204	1,119	45	0	9,412	43	295,771	11,785
1965	318,634	11,041	1,188	17	14,598	1,811	43	0	10,724	133	345,187	13,002
1966	357,907	12,548	860	107	11,708	967	55	0	6,265	223	376,795	13,845
1967	383,260	16,851	587	224	7,475	891	60	0	4,557	526	395,939	18,492
1968	394,528	45,502	573	360	8,271	1,290	54	0	6,502	996	409,928	48,148
1969	440,983	47,720	627	1,264	12,167	937	78	0	7,756	962	461,611	50,883
1970	536,968	49,333	4,207	2,223	11,029	1,192	52	0	5,589	1,078	557,845	53,826
1971	558,771	53,373	3,953	258	6,553	1,079	41	0	8,382	1,073	577,700	55,783
1972	616,990	64,302	5,458	473	6,212	1,191	0	0	8,741	483	637,401	66,449
1973	639,611	125,210	6,068	1,353	10,471	12,406	0	104	20,075	4,076	676,225	143,149
1974	538,573	95,018	7,919	621	11,806	6,766	—	32	20,859	3,142	579,157	105,579

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(1) Figures not available by P.A.D. prior to 1959.
(2) Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands.

Source: U.S. Bureau of Mines. 1950–1972, Minerals Yearbook
1973–1974, Crude Petroleum, Petroleum Products, and Natural Gas Liquids; Annual and December issues

Section IX
Table 6a

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year(2)	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil
1975	416,105	54,300	14,015	223	3,957	1,441	—	1	12,451	713	446,528	56,678
1976	495,980	49,225	11,720	97	1,728	680	—	—	7,897	3,518	517,325	53,520
1977	467,124	88,171	11,754	55	818	413	—	—	16,369	2,673	496,065	91,318
1978	468,937	59,023	17,101	306	939	210	—	—	7,663	3,749	494,640	63,288
1979	392,861	64,091	14,267	70	2,044	1,568	—	4	10,972	4,756	420,144	70,489
1980	317,157	48,518	10,754	—	6,485	1,268	—	—	9,161	2,122	343,557	51,908
1981	260,156	59,180	8,592	5	14,055	2,634	—	2	9,266	1,251	292,070	63,070
1982	235,912	29,763	3,966	392	35,700	1,526	9	4	7,514	2,355	283,101	34,040
1983	222,276	56,129	5,375	3,075	19,555	2,189	193	488	7,814	1,660	255,213	63,542
1984	218,730	91,885	2,069	2,999	23,488	1,029	158	1,300	4,766	2,227	249,211	99,439

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(2) Figures include receipts from Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984 -- U.S. Energy Information Administration, Petroleum Supply Annuals.

U.S. IMPORTS OF UNFINISHED OILS AND REFINED PRODUCTS BY P.A.D. DISTRICTS[2]
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products
1959[1]	16,628	264,347	587	606	2,148	4,861	—	31	3,709	4,322	23,072	274,167
1960	9,534	248,388	520	1,019	994	16,788	—	121	5,430	9,742	15,478	276,058
1961	18,045	256,484	1,184	1,324	145	15,258	—	180	5,974	19,524	25,348	292,770
1962	22,297	279,475	360	1,746	1,616	15,101	—	154	8,243	19,672	32,516	316,238
1963	21,779	299,530	476	2,193	2,102	14,952	—	39	7,345	13,637	31,702	330,351
1964	21,151	321,994	478	3,552	1,011	13,117	—	159	9,947	16,684	32,587	355,506
1965	23,260	369,760	213	5,739	377	18,073	—	727	9,856	20,727	33,706	415,026
1966	26,743	410,435	43	7,276	15	13,826	—	971	8,435	24,298	35,236	456,806
1967	23,222	434,265	20	7,171	276	9,873	—	879	11,707	26,929	35,225	479,117
1968	21,987	489,628	1	7,573	109	10,618	—	2,253	7,253	27,624	29,350	537,696
1969	28,975	543,947	51	8,245	1,034	15,087	—	2,979	8,706	32,413	38,766	602,671
1970	30,221	651,123(3)	—	20,022(3)	913	21,191	—	3,192(3)	8,127	29,980(3)	39,261	725,508(3)
1971	30,651	685,309(3)	—	22,918(3)	2,217	17,425	—	7,786(3)	12,325	43,832(3)	45,193	777,270(3)
1972	30,715	761,491(3)	—	39,798(3)	1,548	16,474	—	16,623(3)	13,442	44,088(3)	45,705	878,474(3)
1973	26,216	874,707(3)	739	53,985(3)	10,681	45,714	—	16,285(3)	12,525	58,645(3)	50,161	1,049,336
1974	14,084	757,416(3)	1,155	49,860(3)	19,208	43,356(3)	—	14,143(3)	9,781	52,789(3)	44,228	917,564(3)
1975	6,038	578,739(3)	392	49,345(3)	4,170	15,989(3)	—	12,327(3)	2,385	42,769(3)	12,985	699,169(3)
1976	7,721	619,068	16	34,334	3,750	13,382	—	5,888(3)	248	32,584	11,735	705,256
1977	9,333	665,984	15	43,912	905	17,422	—	5,922	986	40,659	11,239	773,899
1978	9,022	614,132	15	45,676	226	8,427	—	4,635	650	43,998	9,913	716,868
1979	7,945	545,758	338	68,663	7,687	21,135	—	4,737	5,402	40,532	21,372	680,825
1980	11,489	446,336	217	68,505	5,855	25,986	—	5,222	2,454	32,696	20,015	578,745
1981	18,096	392,310	396	69,554	19,442	39,355	—	7,877	2,858	33,827	40,792	542,923
1982	23,182	355,073	2,708	65,611	35,027	63,820	—	7,141	2,741	37,842	63,657	529,487
1983	32,030	390,381	4,120	62,081	47,060	50,025	604	6,981	1,765	33,471	85,580	542,938
1984	19,936	472,223	3,821	61,098	55,977	73,631	—	8,856	4,762	35,683	84,496	651,490

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(1) Figures not available by P.A.D. district prior to 1959.
(2) Figures include receipts from Puerto Rico and Virgin Islands.
(3) Includes plant condensate.

Source: U.S. Department of Interior, 1959-1972, Minerals Yearbook
Department of Energy, 1973-1980, Annual Petroleum Statements.
1981-1984, Petroleum Supply Annual.

Section IX
Table 8

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels Per Day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
WESTERN HEMISPHERE													
Bahamas	--	--	--	--	--	--	--	--	--	--	--	1	--
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69
Ecuador	--	--	--	--	--	--	--	--	--	--	--	--	--
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41
Neth. Antilles	273	338	324	300	264	297	312	333	361	332	361	392	450
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876
Virgin Islands	--	--	--	--	--	--	--	--	--	--	36	78	116
Other	5	11	8	2	10	9	21	10	11	21	41	46	34
Total	1,265	1,267	1,356	1,399	1,493	1,660	1,726	1,815	1,967	2,066	2,145	2,264	2,481
EASTERN HEMISPHERE													
Abu Dhabi/United Arab Emirates(1)	--	--	--	--	--	--	--	3	14	13	5	16	14
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89
Italy	--	8	4	1	--	--	--	1	2	18	28	49	75
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46
Iraq	--	--	--	--	--	--	--	--	--	--	--	--	--
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39
Libya	--	--	--	--	--	19	19	39	41	69	42	114	135
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--	15	11	5	8	49
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	25	81	83	81	103	94	82	93	85	91	70	140	196
Total	309	433	424	416	424	422	397	443	501	507	392	576	685
TOTAL U.S. IMPORTS	1,574	1,700	1,780	1,815	1,917	2,082	2,123	2,258	2,468	2,573	2,537	2,840	3,166

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(1) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Bureau of Mines

Section IX
Table 8a

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels Per Day)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
WESTERN HEMISPHERE													
Bahamas	32	150	174	174	164	152	116	167	160	147	76	74	65
Canada	767	857	1,108	1,325	1,070	846	599	516	467	538	455	447	482
Colombia	45	27	16	9	5	9	21	17	20	18	4	—	—
Ecuador	—	—	—	48	42	57	51	55	54	42	27	48	42
Mexico	42	27	21	16	8	71	87	179	318	439	533	522	685
Neth. Antilles	442	429	424	585	511	332	275	214	229	231	225	197	175
Puerto Rico	87	95	102	99	90	90	88	105	94	92	88	62	50
Trinidad	217	182	226	255	251	242	273	286	253	190	176	133	112
Venezuela	983	1,019	950	1,135	979	702	699	687	646	690	481	406	412
Virgin Islands	189	273	303	329	391	406	422	466	428	431	388	327	316
Other	52	18	61	28	21	44	44	16	33	50	59	79	84
Total	2,856	3,077	3,395	4,033	3,532	2,951	2,675	2,708	2,701	2,868	2,512	2,216	2,423
EASTERN HEMISPHERE													
Abu Dhabi/United Arab Emirates(1)	63	80	73	71	74	117	254	333	385	281	172	81	92
Algeria	8	15	92	135	190	282	432	552	649	636	488	311	170
Indonesia	70	111	164	213	300	389	539	533	573	420	348	366	248
Italy	83	79	83	125	74	27	37	51	38	30	4	—	—
Iran	38	112	142	223	469	280	298	530	555	304	9	—	35
Iraq	—	11	4	4	—	3	26	76	62	88	28	—	3
Kuwait	36	36	45	47	5	16	5	48	6	8	27	—	5
Libya	47	57	123	164	4	232	453	715	654	658	554	319	26
Malaysia	N.A.	N.A.	1	12	12	8	18	63	42	66	70	36	20
Netherlands	N.A.	N.A.	12	53	43	18	8	31	5	23	2	30	35
Nigeria	50	103	251	459	713	762	1,025	1,135	919	1,080	857	620	514
Norway	N.A.	N.A.	2	1	1	17	36	50	104	75	144	119	102
Oman	N.A.	N.A.	N.A.	N.A.	1	2	30	79	68	44	25	24	22
Qatar	—	—	3	7	17	18	24	67	64	31	22	7	7
Saudi Arabia	42	127	190	486	461	715	1,230	1,377	1,144	1,356	1,261	1,129	552
United Kingdom	N.A.	N.A.	10	9	8	11	31	124	180	202	176	375	456
Other	134	143	152	244	207	208	174	272	324	286	209	363	403
Total	563	848	1,347	2,253	2,579	3,105	4,620	6,036	5,662	5,588	4,396	3,780	2,690
TOTAL U.S. IMPORTS	3,419	3,925	4,742	6,256	6,111	6,056	7,295	8,744	8,363	8,456	6,908	5,996	5,113

N.A. Not available on individual country basis, included in "Other."

(1) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts", Annual Reports.
U.S. Energy Information Administration, 1981-1982 — Petroleum Supply Annual.

Section IX
Table 8b

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of Barrels per Day)

	1983	1984
WESTERN HEMISPHERE		
Bahamas	125	88
Canada	547	630
Colombia	—	—
Ecuador	61	55
Mexico	826	748
Neth. Antilles	189	188
Puerto Rico	40	42
Trinidad	96	94
Venezuela	422	548
Virgin Islands	282	294
Other	114	110
Total	2,702	2,797
EASTERN HEMISPHERE		
Abu Dhabi/United Arab Emirates	30	117
Algeria	240	323
Indonesia	338	343
Italy	—	—
Iran	48	10
Iraq	10	12
Kuwait	14	36
Libya	--	1
Malaysia	4	1
Netherlands	65	65
Nigeria	302	216
Norway	66	114
Oman	34	14
Qatar	—	5
Saudi Arabia	337	325
United Kingdom	382	402
Other	479	656
Total	2,349	2,640
TOTAL U.S. IMPORTS	5,051	5,437

Source: U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 9

U.S. DIRECT PETROLEUM IMPORTS FROM MEMBERS OF THE ORGANIZATION OF ARAB PETROLEUM EXPORTING COUNTRIES
SEPTEMBER 1973 - APRIL 1974
(Thousands of Barrels)

	SEPTEMBER 1973			OCTOBER 1973			NOVEMBER 1973			DECEMBER 1973		
OAPEC MEMBERS	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
2. Bahrain	—	38	38	—	589	589	—	552	552	—	99	99
3. Egypt	—	—	—	—	—	—	—	—	—	—	—	—
4. Iraq	515	—	515	364	—	364	—	—	—	—	—	—
5. Kuwait	1,334	—	1,334	1,724	—	1,724	—	—	—	—	—	—
6. Libya	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
7. Qatar	1,222	—	1,222	543	—	543	273	—	273	74	—	74
8. Saudi Arabia	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
9. Syria	—	—	—	—	—	—	—	—	—	—	—	—
10. United Arab Emirates	2,652	—	2,652	1,920	3	1,923	3,197	—	3,197	—	1	1
OAPEC TOTAL	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
U.S. TOTAL	104,117	88,227	192,344	115,905	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
OAPEC AS A % OF U.S. TOTAL	30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

	JANUARY 1974			FEBRUARY 1974			MARCH 1974			APRIL 1974		
OAPEC MEMBERS	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	—	—	—	75	—	75	244	—	244	3,448	141	3,589
2. Bahrain	—	—	—	—	3	3	—	—	—	—	—	—
3. Egypt	—	—	—	—	—	—	—	—	—	543	—	543
4. Iraq	—	—	—	—	—	—	—	—	—	—	—	—
5. Kuwait	—	—	—	—	—	—	—	—	—	62	—	62
6. Libya	29	—	29	468	—	468	142	—	142	244	—	244
7. Qatar	—	—	—	—	—	—	—	—	—	—	—	—
8. Saudi Arabia	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
9. Syria	—	—	—	—	—	—	—	—	—	—	—	—
10. United Arab Emirates	304	—	304	—	—	—	—	—	—	405	—	405
OAPEC TOTAL	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
U.S. TOTAL	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
OAPEC AS A % OF U.S. TOTAL	1.3%	0.1%	0.6%	2.6%	*	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

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* Less than one-tenth of one percent
(1) Less than 1/2 unit

Source: U.S. Bureau of Mines and U.S. Bureau of Census

Section IX
Table 10

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1972

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	---	30	70	65	---	10	40	5	5	---	225
Canada	1,085	---	---	---	---	---	---	---	---	---	1,085
Caribbean	2,270	520	160	545	5	10	10	---	---	100	3,620
Other Western Hemisphere	45	---	25	---	---	---	30	---	---	---	1,000
Western Europe	160	15	---	---	40	---	---	---	20	90	325
Middle East	475	250	1,115	8,570	460	1,265	3,770	260	605	180	16,950
North Africa	230	30	250	2,730	10	---	5	---	220	---	3,475
West Africa	265	70	290	1,170	---	---	70	---	30	20	1,915
South East Asia	180	---	10	5	10	---	830	55	---	---	1,090
USSR, Eastern Europe	20	---	130	970	75	---	25	---	40	---	1,260
Other Eastern Hemisphere	10	---	---	5	---	30	5	---	---	---	50
TOTAL IMPORTS	4,740	915	2,050	14,060	600	1,315	4,785	320	920	390	30,095

1973

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination not known	Total Exports
United States	---	30	55	85	5	25	30	---	---	---	230
Canada	1,335	---	---	---	---	---	---	---	---	---	1,335
Caribbean	2,540	500	130	355	5	5	10	---	---	85	3,630
Other Western Hemisphere	80	---	100	---	---	---	---	---	---	20	200
Western Europe	265	---	---	---	60	---	---	---	10	70	405
Middle East	820	320	1,000	10,350	535	1,315	4,385	290	775	180	19,970
North Africa	360	40	175	2,545	5	---	20	---	265	10	3,420
West Africa	515	90	415	1,030	---	---	110	---	5	---	2,165
South East Asia	240	---	---	10	---	---	1,115	40	---	---	1,405
USSR, Eastern Europe	35	---	145	935	75	5	55	---	20	15	1,285
Other Eastern Hemisphere	15	---	---	---	---	25	35	---	5	5	85
TOTAL IMPORTS	6,205	980	2,020	15,310	685	1,375	5,760	330	1,080	385	34,130

*Includes quantities in transit, transit losses, minor movements not otherwise shown, military uses, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10a

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1974

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	--	30	60	75	5	5	35	10	--	--	220
Canada	1,025	--	--	20	--	--	--	--	--	--	1,045
Caribbean	2,320	430	155	320	10	--	10	--	--	--	3,245
Other Western Hemisphere	125	--	120	--	--	--	--	--	--	--	245
Western Europe	240	--	--	--	80	--	15	--	35	95	465
Middle East	1,025	400	1,265	10,195	490	1,320	4,050	285	715	305	20,050
North Africa	230	15	130	1,915	10	--	70	--	255	--	2,625
West Africa	795	15	305	1,300	--	30	100	--	--	--	2,545
South East Asia	315	--	45	5	--	--	990	45	--	--	1,400
USSR, E. Europe & China	30	--	160	1,010	60	--	120	--	20	--	1,400
Other Eastern Hemisphere	20	--	--	--	--	30	40	--	--	--	90
TOTAL IMPORTS	6,125	890	2,240	14,840	655	1,385	5,430	340	1,025	400	33,330

1975

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Total Exports
United States	--	20	65	70	5	--	30	10	10	210
Canada	800	--	--	--	--	--	--	--	--	800
Latin America	2,270	270	120	380	40	--	20	--	75	3,175
Western Europe	45	--	--	--	165	--	--	--	35	245
Middle East	1,140	540	1,525	8,815	475	1,450	3,675	255	630	18,505
North Africa	500	--	140	1,530	--	--	70	--	165	2,405
West Africa	850	20	200	835	--	--	70	--	--	1,975
East and South Africa	--	--	--	--	--	35	--	--	--	35
South Asia	--	--	--	5	--	--	--	--	--	5
South East Asia	400	--	80	--	10	--	885	80	--	1,455
Japan	--	--	--	5	--	--	--	--	--	5
Australasia	5	--	--	--	--	10	35	--	--	50
USSR, E. Europe & China	15	--	210	970	15	70	160	--	30	1,470
TOTAL IMPORTS	6,025	850	2,340	12,610	710	1,565	4,945	345	945	30,335

*Includes quantities in transit, transit losses, minor movements not otherwise shown, military use, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10b

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1976

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	10	70	80	10	5	30	5	10	—	220
Canada	595	—	—	5	—	—	—	—	—	—	600
Latin America	2,010	320	140	335	10	—	10	5	30	450	3,310
Western Europe	160	—	—	—	100	—	—	—	85	—	345
Middle East	1,910	385	1,725	9,405	490	1,630	3,955	255	710	390	20,855
North Africa	915	20	160	1,680	15	10	45	—	225	—	3,070
West Africa	1,085	30	230	860	—	—	25	—	—	—	2,230
East and South Africa	—	—	—	—	—	30	—	—	—	—	30
South East Asia	585	—	15	5	—	—	1,080	80	—	—	1,765
Japan	—	—	—	—	—	5	—	—	—	—	5
Australasia	10	—	—	—	—	5	40	—	—	—	55
USSR, E. Europe & China	20	—	160	1,355	20	100	135	—	25	—	1,815
TOTAL IMPORTS	7,290	765	2,500	13,725	645	1,785	5,320	345	1,085	840	34,300

1977

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	25	105	75	5	—	30	5	5	—	250
Canada	540	—	—	—	—	—	—	—	—	—	540
Latin America	2,205	290	110	290	45	—	10	—	65	100	3,115
Western Europe	250	—	10	—	130	5	—	5	80	—	480
Middle East	2,560	395	1,570	8,855	485	1,600	4,095	240	805	125	20,730
North Africa	1,320	—	150	1,735	5	—	25	—	60	—	3,295
West Africa	1,220	—	275	845	—	—	—	—	30	—	2,370
East and South Africa	—	—	—	—	—	20	—	—	—	—	20
South Asia	—	—	—	—	—	—	—	—	—	—	—
South East Asia	590	—	—	20	5	—	1,155	90	5	50	1,915
Japan	—	—	—	—	—	5	—	—	—	—	5
Australasia	10	—	—	—	—	5	45	—	—	—	60
USSR, E. Europe & China	15	—	180	1,475	5	120	150	—	30	—	1,975
TOTAL IMPORTS	8,710	710	2,400	13,295	680	1,755	5,510	340	1,080	275	34,755

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.
SOURCE: BP Statistical Review of World Energy

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1978

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	90	90	85	10	5	30	5	50	—	365
Canada	445	—	—	—	—	—	—	—	—	—	445
Latin America	2,225	290	360	345	25	—	15	—	40	100	3,400
Western Europe	375	—	—	—	135	—	—	—	40	—	550
Middle East	2,300	275	1,525	8,685	425	1,610	4,010	250	515	135	19,730
North Africa	1,310	—	200	1,770	15	—	10	—	65	—	3,370
West Africa	975	—	300	780	60	—	—	—	—	—	2,115
East and South Africa	—	—	—	5	—	5	—	—	—	—	10
South Asia	—	—	—	5	—	—	—	—	—	—	5
South East Asia	570	—	—	20	15	—	1,085	100	—	—	1,790
Japan	5	—	—	—	—	10	—	—	—	—	15
Australasia	10	—	—	—	—	10	35	—	—	—	55
USSR, E. Europe & China	10	—	200	1,395	25	200	150	—	30	—	2,010
TOTAL IMPORTS	8,225	655	2,675	13,099	710	1,840	5,335	355	740	235	33,860

1979

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	100	225	105	—	15	35	5	—	—	485
Canada	455	—	—	—	—	—	—	—	—	—	455
Latin America	2,410	230	210	270	25	—	10	—	135	355	3,645
Western Europe	350	—	—	—	145	—	—	—	25	—	520
Middle East	2,115	260	1,535	8,685	440	1,745	4,155	285	910	305	20,435
North Africa	1,355	20	120	1,870	20	—	15	—	25	—	3,425
West Africa	1,185	—	390	1,010	60	—	—	—	—	—	2,645
East and South Africa	—	—	—	—	—	10	—	—	—	—	10
South Asia	—	—	—	—	—	10	10	—	20	—	40
South East Asia	530	—	25	25	10	—	1,215	90	20	—	1,915
Japan	—	—	—	—	—	10	—	—	—	—	10
Australasia	10	—	—	—	—	—	15	—	—	—	25
USSR, E. Europe & China	—	—	200	1,115	35	180	150	—	60	—	1,740
TOTAL IMPORTS	8,410	610	2,705	13,080	735	1,970	5,605	380	1,195	660	35,350

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.
SOURCE: BP Statistical Review of World Energy

Section IX
Table 10d

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1980

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	105	290	145	5	10	—	—	—	—	555
Canada	370	—	—	30	—	10	10	—	—	25	445
Latin America	2,050	215	275	625	50	—	80	5	235	350	3,885
Western Europe	355	5	—	—	85	5	—	—	10	—	460
Middle East	1,555	300	1,615	7,275	445	1,745	3,560	220	695	100	17,510
North Africa	1,015	5	135	1,440	15	—	55	—	155	—	2,820
West Africa	985	5	420	990	60	—	15	—	—	—	2,475
East and South Africa	—	—	—	—	—	10	—	—	—	—	10
South Asia	—	—	—	—	—	—	5	—	35	—	40
South East Asia	405	—	—	15	25	—	1,075	140	45	—	1,705
Japan	—	—	—	—	—	5	—	—	—	—	5
Australasia	—	—	—	5	—	10	5	—	—	—	20
USSR, E. Europe & China	—	—	205	1,300	—	225	180	—	95	—	2,005
TOTAL IMPORTS	6,735	635	2,940	11,825	685	2,020	4,985	365	1,270	475	31,935

1981

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	95	260	135	5	40	40	10	10	10	605
Canada	425	—	5	15	5	—	—	—	—	5	455
Latin America	1,950	295	220	880	105	—	155	25	380	370	4,380
Western Europe	525	5	—	—	105	10	5	—	110	—	760
Middle East	1,255	195	1,395	5,750	385	1,755	3,020	180	555	115	14,605
North Africa	655	30	70	1,350	—	—	70	—	—	—	2,175
West Africa	720	5	285	660	40	—	20	—	—	—	1,730
East and South Africa	—	—	—	—	10	5	5	—	—	—	20
South Asia	—	—	—	—	—	5	5	5	30	—	45
South East Asia	395	—	—	50	20	—	950	95	150	—	1,660
Japan	—	—	—	—	—	5	—	5	—	—	10
Australasia	5	—	—	—	—	10	—	—	—	—	15
USSR, E. Europe & China	20	—	185	1,405	—	240	190	—	155	—	2,195
TOTAL IMPORTS	5,950	625	2,420	10,245	675	2,070	4,460	320	1,390	500	28,655

*Includes quantities in transit, minor movements not otherwise shown, military use, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10e

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1982

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	90	315	225	10	65	75	10	10	15	815
Canada	470	—	—	10	—	—	5	—	—	—	485
Latin America	2,050	180	415	750	100	10	150	—	150	330	4,135
Western Europe	580	25	30	—	155	10	—	5	160	—	965
Middle East	770	95	920	4,625	275	1,640	2,755	155	425	—	11,660
North Africa	245	15	125	1,500	20	—	45	—	190	5	2,145
West Africa	605	5	105	700	45	—	—	—	40	—	1,500
East and South Africa	—	—	—	—	20	5	—	—	—	—	25
South Asia	—	—	—	45	—	5	5	5	10	—	70
South East Asia	275	—	—	25	20	—	890	135	135	—	1,480
Japan	—	—	—	5	—	5	—	5	—	—	15
Australasia	5	—	—	—	—	—	20	—	—	—	25
USSR, E. Europe & China	40	—	200	1,465	—	240	210	5	85	—	2,245
TOTAL IMPORTS	5,040	410	2,110	9,350	645	1,980	4,155	320	1,205	350	25,565

1983

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	80	255	185	15	80	105	15	5	—	740
Canada	540	—	—	—	—	—	5	—	—	—	545
Latin America	2,160	125	425	820	65	5	180	5	160	120	4,065
Western Europe	550	15	25	—	145	5	—	5	105	10	860
Middle East	575	60	855	3,415	405	1,615	2,750	120	545	15	10,355
North Africa	280	25	60	1,675	5	—	40	—	95	—	2,180
West Africa	475	15	115	755	25	—	5	—	35	—	1,425
East and South Africa	—	—	—	—	—	5	—	—	—	—	5
South Asia	—	—	—	5	10	25	15	10	—	—	65
South East Asia	345	—	—	25	20	—	780	85	55	90	1,400
Japan	—	—	—	—	—	10	—	—	—	—	10
Australasia	5	—	—	—	—	10	30	—	5	—	50
USSR, E. Europe & China	60	—	220	1,785	—	240	235	5	110	—	2,655
TOTAL IMPORTS	4,990	320	1,955	8,665	690	1,995	4,145	245	1,115	235	24,355

*Includes changes in the quantity of oil in transit, transit losses, minor movements not otherwise shown, unidentified military use, etc.

SOURCE: BP Statistical Review of World Energy

Section IX
Table 10f

WORLD OIL MOVEMENTS
(Thousands of Barrels per Day)

1984

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Australasia	Other Eastern Hemisphere	Destination* not known	Total Exports
United States	—	85	255	205	10	60	90	10	5	—	720
Canada	625	—	—	—	—	—	5	—	—	25	655
Latin America	2,255	125	420	875	65	—	185	—	120	55	4,100
Western Europe	620	25	40	—	80	—	—	5	75	15	860
Middle East	615	70	700	3,045	340	1,555	2,830	110	525	55	9,845
North Africa	315	30	80	1,650	35	—	25	—	155	—	2,290
West Africa	445	5	105	965	55	—	—	—	40	55	1,670
East & South Africa	—	—	—	—	5	—	—	—	—	10	15
South Asia	—	—	—	20	5	10	15	—	—	5	55
South East Asia	375	—	—	35	10	—	880	105	65	130	1,600
Japan	—	—	—	—	—	10	—	—	—	5	15
Australasia	40	—	—	—	—	15	10	—	—	—	60
USSR, E. Europe & China	90	00	200	1,800	—	385	270	—	120	—	2,865
TOTAL IMPORTS	5,380	340	1,800	8,595	605	2,035	4,305	230	1,105	355	24,750

* Includes changes in the quantity of oil in transit, transit losses, minor movements not otherwise shown, unidentified military use, etc.

Source: BP Statistical Review of World Energy

BASIC PETROLEUM DATA BOOK

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Petroleum

Table 2. U.S. Exports of Petroleum to Selected Areas

Table 3. African Oil Exports to Selected Areas

Table 4. Middle East Oil Exports to Selected Areas

Table 5. The Role of Middle East and African Oil in Western European and Japanese Consumption

Table 6. The Role of Middle East and African Oil in World Exports

Section X
Table 1

TOTAL U.S. DOMESTIC PRODUCTION AND EXPORTS OF CRUDE OIL AND ITS PRODUCTS
(Thousands of barrels)

Year	Production[1]	Exports	Exports As a % of U.S. Production
1947	1,989,850	164,477	8.3
1948	2,167,264	134,674	6.2
1949	1,999,215	119,376	6.0
1950	2,155,693	111,306	5.2
1951	2,452,465	154,052	6.3
1952	2,513,351	158,188	6.3
1953	2,596,661	146,591	5.6
1954	2,567,121	129,733	5.1
1955	2,765,799	134,188	4.9
1956	2,910,010	157,386	5.4
1957	2,911,891	207,187	7.1
1958	2,743,736	100,638	3.7
1959	2,895,347	77,067	2.7
1960	2,915,090	73,906	2.5
1961	2,983,447	63,563	2.1
1962	3,048,894	61,390	2.0
1963	3,153,609	75,914	2.4
1964	3,209,293	73,879	2.3
1965	3,290,070	68,288	2.1
1966	3,496,398	72,400	2.1
1967	3,730,198	112,060	3.0
1968	3,879,353	84,544	2.2
1969	3,951,992	84,885	2.1
1970	4,123,366	94,458	2.3
1971	4,071,729	81,685	2.0
1972	4,093,584	81,389	2.0
1973	3,995,326	84,413	2.1
1974	3,818,683	80,491	2.1
1975	3,652,737	76,428	2.1
1976	3,563,225	81,599	2.3
1977	3,599,720	88,588	2.5
1978	3,750,302	132,057	3.5
1979	3,699,333	171,856	4.6
1980	3,722,152	199,256	5.4
1981	3,715,743	217,024	5.8
1982	3,722,591	297,514	8.0
1983	3,730,085	269,890	7.2
1984	3,846,173	264,077	6.9

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(1) Figures include crude oil, lease condensate and natural gas liquids.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1984 — U.S. Energy Information Administration, Petroleum Supply Annuals.

Section X
Table 2

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of Barrels)

	CANADA		MEXICO		CARIBBEAN(1)		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	TOTAL U.S. EXPORTS
1947	39,050	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565	4,424	20,674	N.A.		—	—	—	14,565	—	2,786	164,477
1948	33,298	20,629	62	4,157	1,498	8,708	1,417	3,439	471	16,223	2,991	13,150	N.A.		—	—	—	8,570	—	2,400	134,674
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410	547	12,423	N.A.		—	364	—	7,176	—	2,922	119,376
1950	30,708	15,953	—	6,229	1,829	7,278	661	4,141	441	5,868	851	8,227	N.A.		334	92	—	2,953	—	1,916	111,306
1951	21,172	17,867	—	7,034	2,167	9,729	1,356	3,932	457	13,914	1,048	12,284	N.A.		2,403	4,878	—	11,406	—	4,703	154,052
1952	20,172	25,211	—	7,130	2,513	13,703	1,789	4,295	499	9,889	976	9,466	N.A.		748	7,286	—	13,126	—	5,896	158,108
1953	14,025	26,939	—	8,281	2,620	10,399	1,001	3,515	418	9,201	926	7,809	N.A.		862	10,508	—	8,740	—	5,043	146,591
1954	8,130	22,635	—	12,003	2,928	7,185	608	5,008	462	7,687	745	5,424	N.A.		726	8,166	—	5,996	—	2,734	129,733
1955	6,501	20,389	—	16,062	3,136	7,713	236	6,426	532	8,875	650	7,385	N.A.		515	11,282	—	4,363	—	1,636	134,188
1956	5,570	20,540	—	16,485	3,262	9,979	—	5,007	5,238	10,831	13,377	14,560	N.A.		1,055	9,790	—	4,309	122	2,154	157,386
1957	8,240	18,307	902	15,950	3,283	11,120	—	7,110	14,880	19,660	21,003	29,660	N.A.		1,057	13,642	339	6,431	539	3,328	207,187
1958	1,153	13,497	696	11,568	592	7,977	—	3,661	378	6,010	450	9,420	N.A.		1,076	12,486	—	4,491	—	2,368	100,638
1959	—	16,061	21	8,297	—	3,978	—	4,753	405	6,592	550	9,515	N.A.		1,548	16,153	—	5,019	—	2,383	77,067
1960	—	12,622	—	6,478	—	3,315	—	4,131	433	3,840	568	10,395	N.A.		2,086	20,595	-	5,891	—	2,332	73,906
1961	20	8,381	133	4,415	—	3,721	1	3,143	437	3,268	355	9,401	N.A.		2,218	19,255	55	5,930	—	1,686	63,563
1962	8	7,766	—	4,981	—	2,888	—	3,417	428	2,616	—	10,290	N.A.		1,354	18,333	—	6,544	—	2,655	61,399
1963	2	7,985	3	6,889	—	3,461	—	3,036	424	3,443	1	19,933	N.A.		1,266	20,080	1	7,316	—	3,066	75,914
1964	7	9,791	3	8,920	—	4,503	—	3,656	336	3,191	—	14,387	N.A.		952	19,429	63	6,602	—	2,206	73,879
1965	12	9,613	333	9,452	—	3,322	1	2,635	352	3,924	—	13,365	N.A.		306	14,466	—	7,648	—	1,596	68,208
1966	2	11,715	133	13,955	—	2,179	—	3,240	431	3,784	1	13,522	N.A.		808	12,283	31	7,077	1	2,019	72,400
1967	3,688	14,521	18	12,999	645	3,479	—	4,444	16,959	5,562	4,604	15,318	N.A.		626	17,938	—	7,299	1	2,179	112,060
1968	5	14,126	114	11,140	283	1,603	—	5,138	352	4,838	—	14,912	N.A.		1,048	19,566	—	7,779	—	2,026	84,545
1969	30	16,017	1	12,098	220	2,511	—	5,829	430	4,421	—	17,005	N.A.		755	16,314	—	7,364	—	1,849	84,885
1970	328	10,855	—	12,142	4,264	3,272	—	4,565	176	4,185	—	20,250	N.A.		221	24,868	—	6,433	—	1,475	94,458
1971	60	9,384	—	15,180	101	4,474	—	5,484	120	3,053	—	19,406	—	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	—	9,599	—	15,061	—	3,885	—	4,374	—	3,705	—	24,033	—	1,158	187	11,475	—	6,165	—	1,744	81,309
1973	—	11,427	—	15,984	—	3,614	—	4,294	—	3,249	177	24,863	—	957	520	11,782	—	5,888	—	1,658	84,413
1974	108	11,504	—	12,885	966	3,023	—	4,305	—	2,317	—	24,238	—	1,146	—	13,809	—	4,728	—	1,762	80,491

N.A. Not Available

(1) As of 1971, includes exports to Puerto Rico and Virgin Islands.

(2) Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419.

Source: U.S. Bureau of Mines: 1947-1974, Minerals Yearbook.

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of Barrels)

Year	CANADA		MEXICO		CARIBBEAN(1)		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		TOTAL U.S. EXPORTS
	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	
1975	19	8,139	—	15,425	2,127	3,114	—	3,386	—	2,636	—	24,846	—	995	—	10,012	—	3,550	—	2,179	76,428
1976	2,241	8,096	—	12,677	700	8,772	—	3,474	—	2,732	—	27,220	—	1,280	—	9,326	—	3,725	—	2,356	81,599
1977	16,460	9,540	—	8,893	1,795	3,566	—	3,338	—	3,136	—	25,933	—	1,034	—	8,951	—	4,213	—	1,721	88,580
1978	28,761	10,640	—	9,877	28,967	3,373	—	4,459	—	2,447	—	26,457	—	1,380	—	9,642	—	4,802	—	1,252	132,057
1979	26,079	10,299	—	7,835	59,628	3,538	—	4,718	—	2,493	—	37,497	—	1,085	—	12,543	—	4,416	—	1,725	171,856
1980	30,567	8,822	—	10,085	74,367	9,942	—	4,006	—	2,386	—	34,885	—	1,291	—	11,596	—	9,028	—	2,280	199,256(2)
1981	16,440	16,102	—	9,416	65,104	18,692	—	2,781	—	1,971	—	47,710	—	1,912	—	14,014	7	16,715	—	2,595	217,034(2)
1982	13,073	18,019	—	19,464	67,633	23,531	—	6,714	—	5,167	—	77,969	—	2,182	—	24,636	—	28,077	—	2,791	297,514(2)
1983	6,781	21,047	—	8,812	46,431	21,028	—	6,966	—	3,047	—	66,025	—	1,808	—	38,132	—	35,904	—	3,097	269,854(2)
1984	5,704	24,672	—	12,681	49,408	20,570	—	11,046	—	5,291	—	96,913	—	1,750	—	33,657	—	24,263	—	2,724	264,077(2)

(1) Includes exports to Puerto Rico and Virgin Islands
(2) Includes exports to Greenland, and other.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1984--U.S. Energy Information Administration, Petroleum Supply Annuals.

Section X
Table 3

AFRICA OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year[1]	United States	Western Europe	Japan	All Others	Total Middle East Exports
1960	—	237	—	—	237
1961	5	430	—	—	435
1962	25	740	—	—	765
1963	25	1,125	—	30	1,180
1964	55	1,565	—	30	1,650
1965	70	2,040	—	30	2,140
1966	90	2,540	5	130	2,765
1967	55	2,700	—	155	2,910
1968	170	3,535	5	165	3,875
1969	330	4,370	15	230	4,945
1970	125	5,330	50	300	5,805
1971	195	4,430	60	805	5,490
1972	495	3,900	75	920	5,390
1973	875	3,575	130	1,005	5,585
1974	1,025	3,215	170	760	5,170
1975	1,350	2,365	140	560	4,415
1976	2,000	2,540	70	720	5,330
1977	2,540	2,580	25	540	5,685
1978	2,285	2,555	—	655	5,495
1979	2,540	2,880	15	645	6,080
1980	2,000	2,430	70	805	5,305
1981	1,375	2,010	95	445	3,925
1982	850	2,200	45	575	3,670
1983	755	2,430	45	380	3,610
1984	760	2,615	25	575	3,975

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(1) Not available prior to 1960

Source: "BP Statistical Review of the World Oil Industry," Annual

Section X
Table 4

MIDDLE EAST OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year(1)	United States	Western Europe	Japan	All Others	Total Middle East Exports
1959	355	2,528	—	1,060	4,120
1960	347	2,724	—	1,619	4,690
1961	345	2,855	610	1,280	5,090
1962	315	3,060	720	1,490	5,585
1963	295	3,400	920	1,540	6,155
1964	310	3,740	1,115	1,760	6,925
1965	350	4,195	1,435	1,630	7,610
1966	320	4,375	1,650	2,280	8,625
1967	200	4,605	2,035	2,305	9,145
1968	270	5,065	2,650	2,460	10,445
1969	265	5,780	3,055	2,425	11,525
1970	175	6,220	3,485	2,835	12,715
1971	390	7,685	3,810	3,365	15,250
1972	475	8,570	3,770	4,135	16,950
1973	820	10,350	4,385	4,415	19,970
1974	1,025	10,195	4,050	4,780	20,050
1975	1,140	8,815	3,675	4,875	18,505
1976	1,910	9,405	3,955	5,585	20,855
1977	2,560	8,855	4,095	5,220	20,730
1978	2,300	8,685	4,010	4,735	19,730
1979	2,115	8,685	4,155	5,480	20,435
1980	1,555	7,275	3,560	5,120	17,510
1981	1,255	5,750	3,020	4,580	14,605
1982	770	4,625	2,755	3,510	11,660
1983	575	3,415	2,750	3,615	10,355
1984	615	3,045	2,830	3,355	9,845

(1) Not available prior to 1959

Source: BP Statistical Review of the World Oil Industry

THE ROLE OF MIDDLE EAST AND AFRICAN OIL ON WESTERN EUROPEAN AND JAPANESE CONSUMPTION

(Thousands of Barrels Per Day)

	WESTERN EUROPE			JAPAN		
Year	Consumption	From the Middle East	From Africa	Consumption	From the Middle East	From Africa
1961	4,453	2,855	430	821	610	—
1962	5,128	3,060	740	934	720	—
1963	5,893	3,400	1,125	1,212	920	—
1964	6,692	3,740	1,565	1,484	1,115	—
1965	7,525	4,195	2,040	1,743	1,435	—
1966	8,360	4,375	2,540	1,979	1,650	5
1967	8,937	4,605	2,700	2,144	2,035	—
1968	9,958	5,065	3,535	2,660	2,650	5
1969	11,378	5,780	4,370	3,250	3,055	15
1970	12,364	6,220	5,330	3,847	3,485	50
1971	12,912	7,685	4,430	4,179	3,810	60
1972	13,847	8,570	3,900	4,364	3,770	75
1973	14,492	10,350	3,575	5,071	4,385	130
1974	13,681	10,195	3,215	4,960	4,050	170
1975	12,603	8,815	2,365	4,502	3,675	140
1976	13,448	9,405	2,540	4,771	3,955	70
1977	14,235	8,855	2,580	5,345	4,095	25
1978	14,630	8,685	2,555	5,420	4,012	10
1979	15,037	8,685	2,880	5,480	4,155	15
1980	13,826	7,275	2,430	4,960	3,560	70
1981	13,045	5,750	2,010	4,690	3,020	95
1982	12,500	4,625	2,200	4,395	2,755	45
1983	12,190	3,415	2,430	4,360	2,750	45
1984	12,335	3,045	2,615	4,550	2,830	25

Source: 1961-1980: Western Europe and Japanese Consumption: U.S. Department of Energy, International Petroleum Annual
1981-1984: Western Europe and Japanese Consumption: BP Statistical Review of the World Oil Industry
1961-1984: Middle East and African Exports: BP Statistical Review of the World Oil Industry

THE ROLE OF MIDDLE EAST AND AFRICAN OIL IN WORLD EXPORTS
(Thousands of Barrels/Day)

	MIDDLE EAST		AFRICA		TOTAL WORLD	
Year	Production	Exports	Production	Exports	Production	Exports
1961	5,633	5,090	489	435	22,428	9,870
1962	6,186	5,585	804	765	24,334	11,285
1963	6,812	6,155	1,190	1,180	26,132	12,205
1964	7,613	6,925	1,704	1,650	28,168	13,625
1965	8,367	7,610	2,224	2,140	30,308	15,110
1966	9,338	8,625	2,821	2,765	32,936	16,890
1967	10,048	9,145	3,117	2,910	35,382	17,905
1968	11,298	10,445	3,992	3,875	38,651	20,400
1969	12,447	11,525	5,069	4,945	41,706	22,640
1970	13,957	12,715	6,069	5,805	45,805	25,420
1971	16,381	15,250	5,645	5,490	48,391	27,285
1972	18,116	16,950	5,699	5,390	50,822	30,095
1973	21,219	19,970	5,922	5,585	55,803	34,130
1974	21,882	20,050	5,452	5,170	56,268	33,330
1975	19,619	18,505	5,003	4,415	53,418	30,335
1976	22,174	20,855	5,832	5,330	58,059	34,300
1977	22,600	20,730	6,236	5,685	62,620	34,755
1978	21,415	19,730	6,115	5,495	63,085	33,860
1979	21,558	20,435	6,640	6,080	62,658	35,350
1980	18,407	17,510	6,031	5,305	59,454	31,935
1981	15,752	14,605	4,581	3,925	55,818	28,655
1982	12,664	11,660	4,465	3,670	53,053	25,565
1983	11,550	10,335	4,410	3,610	52,702	24,355
1984	11,279	9,845	4,683	3,975	53,827	24,750

Source: 1961-1978: Total World, Middle East and African Production, U.S. Department of Energy, International Petroleum Annual
1979-1984: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1984: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry

BASIC PETROLEUM DATA BOOK

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Section XI
Table 1

ESTIMATED WORLDWIDE PRODUCTION OF CRUDE OIL
ONSHORE vs OFFSHORE
(Thousands of Barrels)

Year(1)	Onshore Production	Offshore Production	Total World Production
1969	12,961,336	2,261,175	15,222,511
1970	13,961,668	2,757,040	16,718,708
1971	14,649,885	3,012,908	17,662,793
1972	15,346,357	3,254,388	18,600,745
1973	16,729,330	3,638,651	20,367,981
1974	17,140,035	3,397,692	20,537,727
1975	16,316,198	3,186,137	19,502,335
1976	17,661,041	3,530,499	21,191,540
1977	17,738,887	4,161,808	21,900,695
1978	17,961,621	4,196,630	22,158,251
1979	18,139,390	4,625,660	22,765,050
1980	16,754,248	5,009,916	21,764,164
1981	15,388,784	4,984,786	20,373,570
1982	14,452,557	4,949,598	19,395,155
1983	14,272,971	5,001,584	19,274,555
	(Thousands of barrels per day)		
1969	35,511	6,195	41,706
1970	38,251	7,554	45,805
1971	40,126	8,255	48,381
1972	41,930	8,892	50,822
1973	45,835	9,968	55,803
1974	46,957	9,310	56,267
1975	44,689	8,729	53,418
1976	48,253	9,647	57,900
1977	48,600	11,402	60,002
1978	49,210	11,498	60,708
1979	49,852	12,518	62,370
1980	45,766	13,688	59,454
1981	42,161	13,657	55,818
1982	39,576	13,561	53,137
1983	39,104	13,703	52,807

Source: Total World Production, U.S. Energy Information Administration;
1980-1983 production, CIA.
United States Offshore Production, U.S. Geological Survey and U.S. Energy Information Administration
Rest of World Offshore Production, Offshore Magazine

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF CRUDE OIL BY AREA
(Thousands of Barrels)

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations(2)	Total World
1970	583,465	897,900	43,435	1,524,800	760,660	239,805	133,225	4,380	2,662,870	94,170	2,757,040
1971	625,697	908,850	69,423	1,603,970	913,413	233,856	158,410	12,009	2,921,658	91,250	3,012,908
1972	621,315	915,000	82,350	1,618,665	1,040,538	276,293	216,705	15,811	3,168,012	86,376	3,254,388
1973	583,365	985,500	65,822	1,634,687	1,282,161	323,178	287,467	24,718	3,552,211	86,140	3,638,351
1974	535,698	755,999	73,653	1,365,350	1,262,732	380,341	275,082	29,872	3,313,377	84,315	3,397,692
1975	496,537	634,042	97,400	1,227,979	1,070,348	364,876	323,221	116,493	3,102,917	83,220	3,186,137
1976	467,824	613,863	107,103	1,188,790	1,198,203	384,553	407,578	270,855	3,449,979	80,520	3,530,499
1977	439,173	456,250	107,675	1,003,098	1,647,975	490,195	549,690	396,025	4,086,383	74,825	4,161,808
1978	416,325	395,660	103,660	915,645	1,734,845	414,275	525,600	532,535	4,122,900	73,730	4,196,630
1979	398,595	383,250	255,135	1,036,980	1,934,135	355,510	490,560	736,570	4,553,755	71,905	4.625,660
1980	379,650	401,136	281,820	1,062,606	2,132,316	349,164	541,680	850,218	4,935,984	73,932	5,009,916
1981	385,421	381,060	502,970	1,269,451	1,936,325	308,790	539,470	858,480	4,912,516	72,270	4,984,786
1982	412,283	374,490	733,285	1,520,058	1,496,865	286,160	589,840	992,070	4,884,993	64,605	4,949,598
1983	426,919	411,720	747,885	1,586,524	1,322,030	296,015	604,440	1,128,700	4,937,709	63,875	5,001,584
(Thousands of barrels per day)											
1970	1,599	2,460	119	4,178	2,084	657	365	12	7,296	258	7,554
1971	1,714	2,490	190	4,394	2,503	641	434	33	8,005	250	8,255
1972	1,698	2,500	225	4,423	2,843	755	592	43	8,656	236	8,892
1973	1,598	2,700	180	4,478	3,513	885	788	68	9,732	236	9,968
1974	1,468	2,071	202	3,741	3,460	1,042	754	82	9,079	231	9,310
1975	1,360	1,737	267	3,364	2,932	1,000	886	319	8,501	228	8,729
1976	1,278	1,677	293	3,248	3,542	783	1,114	740	9,427	220	9,647
1977	1,203	1,250	295	2,748	4,960	898	1,506	1,085	11,197	205	11,402
1978	1,141	1,084	284	2,509	5,195	693	1,440	1,459	11,296	202	11,498
1979	1,092	1,050	699	2,841	5,149	974	1,344	2,018	12,326	192	12,518
1980	1,037	1,096	770	2,903	5,826	954	1,480	2,323	13,486	202	13,688
1981	1,056	1,044	1,378	3,478	5,305	846	1,478	2,352	13,459	198	13,657
1982	1,130	1,026	2,009	4,165	4,101	784	1,616	2,718	13,384	177	13,561
1983	1,170	1,128	2,049	4,347	3,622	811	1,656	3,092	13,528	175	13,703

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(1) Data not available for prior years.
(2) Only the U.S.S.R. is reported having offshore production until 1978, when China began reporting.

Source: United States Production: 1970-1971, U.S. Geological Survey; 1972-1983, U.S. Energy Information Administration
Rest of World--Offshore Magazine.

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE - OFFSHORE

Year	PRODUCTION (Thousands of Barrels)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore (1)	Offshore (1)	Total
Cumulative to 1953	47,367,775	445,942	47,813,717	$81,119,901	$ 763,977	$81,883,878
1954	2,266,163	48,825	2,314,988	6,289,428	135,502	6,424,930
1955	2,423,885	60,543	2,484,428	6,702,949	167,431	6,870,380
1956	2,542,152	75,131	2,617,283	7,054,406	208,519	7,262,925
1957	2,531,581	85,320	2,616,901	7,815,875	263,384	8,079,259
1958	2,361,047	87,940	2,448,987	7,114,958	265,015	7,379,973
1959	2,471,886	102,704	2,574,590	7,175,225	298,111	7,473,336
1960	2,452,659	122,274	2,574,933	7,067,797	352,384	7,420,181
1961	2,483,272	138,486	2,621,758	7,165,968	399,614	7,565,582
1962	2,503,979	172,210	2,676,189	7,273,791	500,260	7,774,051
1963	2,554,958	197,765	2,752,723	7,393,484	572,259	7,965,743
1964	2,569,436	217,386	2,786,822	7,391,746	625,332	8,017,078
1965	2,606,936	241,578	2,848,514	7,466,393	691,905	8,158,298
1966	2,726,037	301,726	3,027,763	7,856,835	869,588	8,726,423
1967	2,847,820	367,922	3,215,742	8,303,050	1,072,677	9,375,727
1968	2,857,058	471,984	3,329,042	8,406,116	1,388,710	9,794,826
1969	2,841,469	530,282	3,371,751	8,786,876	1,639,804	10,426,680
1970	2,933,985	583,465	3,517,450	9,320,228	1,853,498	11,173,726
1971	2,828,217	625,697	3,453,914	9,574,694	2,118,304	11,692,998
1972	2,834,053	621,315	3,455,368	9,601,562	2,101,948	11,706,510
1973	2,777,538	583,365	3,360,903	10,791,444	2,266,461	13,057,905
1974	2,666,887	535,698	3,202,585	17,970,771	3,609,778	21,580,549

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(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: Total U.S. Production and Total Dollar Value at Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, 1973-1974, U.S. Bureau of Mines; All other years, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 3a

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE - OFFSHORE

Year	PRODUCTION (Thousands of Barrels)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore(1)	Offshore(1)	Total
1975	2,560,242	496,537	3,056,779	$19,361,086	$ 3,754,973	$23,116,059
1976	2,508,356	467,824	2,976,180	20,420,899	3,808,641	24,229,540
1977	2,546,187	439,173	2,985,360	21,996,649	3,794,073	25,790,722
1978	2,761,891	416,325	3,178,216	24,747,514	3,730,310	28,477,824
1979	2,722,715	398,595	3,121,310	34,064,477	4,986,855	39,051,332
1980	2,766,716	379,649	3,146,365	57,791,998	7,930,018	65,722,016
1981	2,743,203	385,421	3,128,624	87,151,743	12,244,641	99,396,384
1982	2,744,432	412,283	3,156,715	78,270,757	11,758,641	90,029,512
1983	2,744,080	426,919	3,170,999	71,867,673	11,180,818	83,048,491
1984	2,780,219	469,477	3,249,696	71,991,425	12,110,707	84,102,132

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(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 4

ESTIMATED WORLDWIDE PRODUCTION OF NATURAL GAS
ONSHORE vs OFFSHORE

(Millions of cubic feet)

Year	Onshore Production	Offshore Production	Total World Production
1970	32,832,942	5,261,019(1)	38,093,961
1971	36,505,911	4,682,485(1)	41,188,396
1972	39,506,581	4,107,978(1)	43,524,559
1973	40,434,180	5,709,421	46,143,601
1974	40,934,670	6,243,850	47,178,520
1975	39,864,833	7,652,941	47,517,774
1976	37,475,038	10,830,646	48,305,684
1977	42,475,464	7,624,626	50,100,090
1978	42,240,355	9,508,980	51,749,302
1979	42,773,255	10,067,795	52,841,050
1980	44,413,368	9,725,718	54,139,086
1981	44,029,685	10,085,315	54,115,000
1982	43,368,420	10,326,580	53,695,000

(Millions of cubic feet per day)

Year	Onshore Production	Offshore Production	Total World Production
1970	89,953	14,414	104,367
1971	100,016	12,829	112,845
1972	105,210	13,710	118,920
1973	110,779	15,642	126,421
1974	112,150	17,106	129,256
1975	109,219	20,967	130,186
1976	102,391	29,592	131,983
1977	116,371	20,889	137,261
1978	115,727	26,052	141,779
1979	117,187	27,583	144,770
1980	121,348	26,573	147,921
1981	120,629	27,631	148,260
1982	118,818	28,292	147,110

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(1) Reflects Free World offshore production since Communist Nation production figures are not available prior to 1973.

Source: Offshore Production, Offshore Magazine and U.S. Geological Survey
Total World Production, 1970-78, U.S. Energy Information Administration, World Natural Gas
1979-80, Central Intelligence Agency, International Energy Statistical Review
1981-82, British Petroleum, BP Statistical Reveiw of World Energy

Section XI
Table 5

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	WESTERN HEMISPHERE United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World
1970	3,287,388	27,601	3,314,989	1,568,000	28,700	22,101	396,500	5,330,290	N.A.	N.A.
1971	3,590,850	26,806	3,617,656	214,299	N.A.	35,801	654,901	N.A.	N.A.	N.A.
1972	3,883,885	26,301	3,910,186	252,602	N.A.	44,568	937,092	N.A.	N.A.	N.A.
1973	3,976,454	28,317	4,004,771	263,435	N.A.	102,784	1,095,000	N.A.	244,550	N.A.
1974	4,246,505	39,913	4,286,418	259,661	N.A.	135,900	1,314,000	N.A.	264,625	N.A.
1975	4,164,727	54,020	4,218,747	1,396,125	114,610	132,130	1,388,095	7,249,707	282,510	7,532,217
1976	4,315,396	123,342	4,438,738	259,860	183,000	233,874	5,406,186	10,521,658	328,302	10,849,960
1977	4,496,927	134,685	4,631,612	333,975	79,935	464,645	1,707,835	7,218,002	363,540	7,581,542
1978	5,134,039	219,730	5,353,769	365,365	80,665	897,535	2,453,165	9,150,499	388,360	9,538,859
1979	5,444,904	201,480	5,646,384	362,080	182,500	759,930	2,717,425	9,668,319	423,765	10,092,084
1980	5,382,236	223,260	5,605,496	546,072	185,928	712,602	2,691,198	9,741,296	448,350	10,189,646
1981	5,546,462	495,305	6,041,767	259,150	123,735	793,510	3,082,790	10,300,952	486,180	10,787,132
1982	5,368,227	575,970	5,911,347	115,705	211,700	832,930	3,081,330	10,153,012	518,300	10,671,312

(Millions of cubic feet per day)

Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World
1970	9,007	75	9,082	4,296	79	61	1,086	14,604	N.A.	N.A.
1971	9,838	73	9,911	587	N.A.	98	1,794	N.A.	N.A.	N.A.
1972	10,612	72	10,684	690	N.A.	122	2,560	N.A.	N.A.	N.A.
1973	10,894	78	10,972	722	N.A.	282	3,000	N.A.	670	N.A.
1974	11,634	109	11,743	711	N.A.	372	3,600	N.A.	725	N.A.
1975	11,410	148	11,558	3,825	314	362	3,803	19,862	774	20,636
1976	11,791	337	12,128	710	500	639	14,771	28,748	897	29,645
1977	12,320	369	12,689	915	219	1,273	4,679	19,775	996	20,771
1978	14,066	602	14,668	1,001	221	2,459	6,721	25,070	1,064	26,134
1979	14,918	552	15,470	992	500	2,082	7,445	26,489	1,161	27,650
1980	14,706	610	15,316	1,492	508	1,947	7,353	26,616	1,225	27,841
1981	15,196	1,357	16,553	710	339	2,174	8,446	28,222	1,332	29,554
1982	14,707	1,488	16,195	317	580	2,282	8,442	27,816	1,420	29,236

N.A. Not Available

Source: U.S. Production—U.S. Geological Survey
Rest of World—Offshore Magazine

Section XI
Table 6

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet) Onshore	Offshore	Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars) Onshore(1)	Offshore(1)	Total
Cumulative to 1953	142,838,325	91,675	142,930,000	$ —	$ —	$ —
1954	8,671,935	70,611	8,742,546	875,370	7,131	882,501
1955	9,296,219	109,132	9,405,351	967,008	11,349	978,357
1956	9,957,253	124,670	10,081,923	1,070,405	13,407	1,083,812
1957	10,527,855	152,403	10,680,258	1,184,610	17,149	1,201,759
1958	10,806,671	223,607	11,030,298	1,290,786	26,706	1,317,492
1959	11,732,065	314,050	12,046,115	1,516,214	40,856	1,556,800
1960	12,362,872	408,166	12,771,038	1,732,763	57,207	1,789,970
1961	12,802,998	451,027	13,254,025	1,928,309	67,932	1,996,241
1962	13,246,639	629,983	13,876,622	2,047,904	97,397	2,145,301
1963	13,906,600	759,959	14,666,559	2,207,391	120,639	2,328,030
1964	14,622,301	839,842	15,462,143	2,257,990	129,699	2,387,689
1965	15,108,715	931,038	16,039,753	2,349,734	144,808	2,494,542
1966	15,846,670	1,359,958	17,206,628	2,489,133	213,626	2,702,759
1967	16,472,127	1,699,198	18,171,325	2,710,170	279,571	2,989,741
1968	17,002,857	2,319,543	19,322,400	2,788,319	380,369	3,168,688
1969	17,952,811	2,745,429	20,698,240	2,997,262	458,353	3,455,615
1970	18,633,254	3,287,388	21,920,642	3,183,940	561,740	3,745,680
1971	19,352,162	3,590,850	22,943,012	3,446,063	639,419	4,085,482
1972	18,647,813	3,883,885	22,531,698	3,459,876	720,586	4,180,462
1973	18,671,095	3,976,454	22,647,549	4,034,771	859,301	4,894,072
1974	17,354,017	4,246,505	21,600,522	5,281,137	1,292,265	6,573,402

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(1) Total dollar value distributed in proportion to percentage of production onshore and offshore.

Sources: U.S. Total Production and Total Dollar Value at the Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

	PRODUCTION (Millions of Cubic Feet)			DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)		
Year	Onshore	Offshore	Total	Onshore[1]	Offshore[1]	Total
1975	15,943,934	4,164,727	20,108,661	$ 7,092,450	$ 1,852,612	$ 8,945,062
1976	15,637,042	4,315,396	19,952,438	9,069,032	2,502,744	11,571,776
1977	15,528,536	4,496,927	20,025,463	12,272,078	3,553,876	15,825,954
1978	14,839,994	5,134,039	19,974,033	13,430,116	4,616,384	18,076,500
1979	15,026,356	5,444,904	20,471,260	17,699,890	6,413,744	24,113,634
1980	14,996,551	5,382,236	20,378,787	23,586,880	8,465,302	32,052,182
1981	14,631,239	5,546,462	20,177,701	28,969,884	10,981,964	39,951,848
1982	13,151,448	5,368,227	18,519,675	32,308,618	13,188,147	45,496,765
1983	12,170,095	4,486,905	16,657,000			

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(1) Total dollar value distributed in proportion to percentage of production onshore and offshore

Source: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

Section XI
Table 7

TOTAL OFFSHORE WELLS DRILLED IN THE UNITED STATES[1]
FEDERAL AND STATE LEASES
Alltime to January 1, 1985

	EXPLORATORY WELLS				DEVELOPMENT WELLS				TOTAL WELLS			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
ALASKA												
State	19	7	54	80	259	13	32	304	278	20	86	384
Federal	1	—	19	20	—	—	—	—	1	—	19	20
Total	20	7	73	100	259	13	32	304	279	20	105	404
CALIFORNIA												
State	20	10	139	169	3152	22	309	3483	3172	32	448	3652
Federal	24	0	155	179	364	3	18	385	388	3	173	564
Total	44	10	294	348	3516	25	327	3868	3560	35	621	4216
OREGON												
Federal	—	—	8	8	—	—	—	—	—	—	8	8
WASHINGTON												
State	—	—	2	2	—	—	—	—	—	—	2	2
Federal	—	—	4	4	—	—	—	—	—	—	4	4
Total	—	—	6	6	—	—	—	—	—	—	6	6
PACIFIC COAST												
Federal	—	—	38	38	—	—	—	—	—	—	38	38
PACIFIC OCEAN												
State	39	17	195	251	3411	35	341	3787	3450	52	536	4038
Federal	25	—	224	249	364	3	18	385	389	3	242	634
Total	64	17	419	500	3775	38	359	4172	3839	55	778	4672
FLORIDA												
State	—	—	15	15	—	—	—	—	—	—	15	15
Federal	—	—	9	9	—	—	—	—	—	—	9	9
Total	—	—	24	24	—	—	—	—	—	—	24	24
LOUISIANA												
State	61	96	920	1077	1851	538	757	3146	1912	634	1677	4223
Federal	206	253	3079	3538	6293	3745	3723	13761	6499	3998	6802	17299
Total	267	349	3999	4615	8144	4283	4480	16907	8411	4632	8479	21522
TEXAS												
State	35	182	700	917	51	145	121	317	86	327	821	1234
Federal	10	91	1032	1133	53	309	579	941	63	400	1611	2074
Total	45	273	1732	2050	104	454	700	1258	149	727	2432	3308
N. GULF OF MEXICO												
Federal	—	—	241	241	69	19	58	146	69	19	299	387
GULF OF MEXICO												
State	96	278	1635	2009	1902	683	878	3463	1998	961	2513	5472
Federal	216	344	4361	4921	6415	4073	4360	14848	6631	4417	8721	19769
Total	312	622	5996	6930	8317	4756	5238	18311	8629	5378	11234	25241
ALABAMA												
State	—	2	—	2	1	1	1	3	1	3	1	5
ATLANTIC OCEAN												
Federal	—	—	36	36	—	—	—	—	—	—	36	36
GRAND TOTAL												
State	135	297	1830	2262	5314	719	1220	7253	5449	1016	3050	9515
Federal	241	344	4621	5206	6779	4076	4378	15233	7020	4420	8999	20439
Total	376	641	6451	7468	12093	4795	5598	22486	12469	5436	12049	29954

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(1) Offshore wells are defined as those producing from beyond natural shore lines.

Source: American Petroleum Institute

Section XI
Table 8

ACCUMULATED PRODUCTION STATE AND FEDERAL OFFSHORE LEASES
ALLTIME TO JANUARY 1, 1982

	Oil & Lease Condensate M bbls	Percent of Total	Gas MMCF	Percent of Total
ALASKA				
State	763,091	100	882,510	100
Federal	—	—	—	—
CALIFORNIA				
State	1,797,416	89	661,770	88
Federal	211,473	11	88,015	12
Subtotal	2,008,889		749,785	
WEST COAST				
State	2,560,507	92	1,544,280	95
Federal	211,473	8	88,015	5
Subtotal	2,771,980		1,632,295	
LOUISIANA				
State	1,243,290	20	9,714,168	16
Federal	5,448,811	80	49,800,253	84
Subtotal	6,692,101		59,514,421	
TEXAS				
State	24,110	32	2,501,389	42
Federal	52,373	68	3,508,511	58
Subtotal	76,483		6,009,900	
GULF OF MEXICO				
State	1,267,400	19	12,215,557	19
Federal	5,501,184	81	53,308,764	81
Subtotal	6,768,584		65,524,321	
TOTAL				
State	3,827,907	40	13,759,837	20
Federal	5,712,657	60	53,396,779	80
GRAND TOTAL	9,540,564		67,156,616	

Source: U.S. Geological Survey.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED		LEASED		Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
		Tracts	Acres	Tracts	Acres				
10/13/54	La.	199	748,000	90	394,721	$116,378,476	$ 1,184,175	$ 295	$ 1,220
11/09/54	Tex.	38	111,788	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,995	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,536	12,875
11/04/71	La.	18	55,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	96	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	508,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	1,421,546	144	675,587	1,428,261,330	2,026,812	2,114	39,111
TOTAL		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

Source: U.S. Department of the Interior, U.S. Geological Survey

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
Cumulative totals 1954-1974		4,451	20,150,435	2,323	10,772,003	$14,793,568,042	$34,945,372	$1,373	--
02/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	$ 3,566
05/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
05/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
07/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
07/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
02/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
02/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
02/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
04/13/76	Ak.	189	1,008,499	76	409,057	599,836,587	1,226,718	1,369	11,023
08/17/76	MAL(1)	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
06/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
06/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
03/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
04/25/78	La.	87	392,894	57	262,250	503,820,339	789,770	1,921	11,038
04/25/78	Tex.	58	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,302
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
02/28/79	MAL(1)	109	620,557	39	222,038	40,001,631	718,848	180	6,832
06/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
07/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
07/31/79	Tx.	42	215,770	28	136,685	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	962,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak.	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA(2)	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
09/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
TOTAL (1954-1980)		9,358	42,857,357	3,980	19,142,130	30,779,503,142	60,525,536	1,608	

(1) Middle Atlantic
(2) North Atlantic

Source: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics

Section XI
Table 9b

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED Tracts	OFFERED Acres	LEASED Tracts	LEASED Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
05/28/81	Ca.	111	603,613	60	320,583	2,049,412,639	835,142	6,393	65,014
06/30/81(5)	Ak.	175	996,307	1	5,693	170,496	18,432	30	417
07/21/81	GOM(4)	212	1,077,914	156	799,899	2,649,628,751	2,399,736	3,312	37,444
08/04/81	So. Atl.	285	1,622,557	47	267,580	342,766,174	866,304	1,281	18,228
09/29/81	Cook In.	153	858,247	13	73,157	4,405,899	236,856	60	407
10/20/81	GOM	209	1,081,364	102	508,287	1,243,468,752	1,524,903	2,446	53,313
12/08/81	MAL	253	1,440,376	50	284,659	321,981,000	921,600	1,131	7,284
02/09/82	GOM	234	1,219,847	115	590,265	1,193,654,719	1,770,795	2,022	N.A.
06/11/82	So. Ca.	140	716,866	29	147,066	117,875,281	443,913	669	N.A.
8/05/82(5)	Atl,Ca.,Ak.	554	3,142,069	36	204,955	11,149,450	663,552	54	N.A.
10/13/82	Ak.	338	1,825,770	121	662,861	2,055,632,336	2,146,112	3,101	N.A.
11/17/82	GOM	144	732,570	56	281,213	609,178,223	850,107	2,166	N.A.
03/08/83	GOM	125	665,478	11	58,120	37,570,900	174,360	646	N.A.
03/15/83	Ak-NB	418	2,379,751	59	335,898	317,873,372	1,013,760	946	N.A.
04/12/83	Ak-SG	479	2,688,787	96	540,917	426,458,830	1,639,638	780	N.A.
04/26/83	MAL	4,050	22,670,685	37	210,641	68,410,240	681,984	325	N.A.
05/25/83	CGOM	7,050	37,867,762	623	3,089,872	3,367,606,134	9,269,616	1,090	N.A.
07/26/83	SAL	3,582	20,392,985	11	62,625	13,362,040	202,752	213	N.A.
08/24/83	WGOM	5,848	32,620,248	406	2,246,005	1,501,712,517	6,738,015	668	N.A.
11/30/83	C.Ca.	137	768,341	8	43,801	16,022,336	131,397	366	N.A.
01/05/84	EGOM	8,868	50,631,513	156	897,786	310,586,261	2,693,358	346	N.A.
04/17/84	Ak.Nav.	5,036	28,048,995	163	927,989	516,317,331	3,074,316	556	N.A.
04/24/84	CGOM	6,502	34,743,780	453	2,278,179	1,323,036,649	6,834,537	581	N.A.
07/18/84	WGOM	5,446	30,038,593	361	1,949,186	844,850,488	5,847,558	433	N.A.
08/22/84	AK-Diap.	1,474	7,773,447	227	1,207,714	866,860,327	3,623,142	718	N.A.
TOTAL (1954-1984)		61,181	329,427,769	7,378	37,147,323	50,953,827,460	115,219,591	N.A.	N.A.

(1) Middle Atlantic
(2) North Atlantic
(4) Gulf of Mexico
(5) Resale

Source: U.S. Department of Interior, Minerals Management Service.

Section XI
Table 10

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year--All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
1953	$ -	$ -	$ 1,359,630	$ 30,650	$ 967,892	$ 2,358,172	$ 2,358,172	$ 5,036,861	$ 5,036,861
1954	140,969,005	-	3,855,333	86,950	2,748,977	147,660,265	150,018,437	14,370,098	19,406,959
1955	108,528,725	-	3,406,351	122,000	5,140,006	117,197,082	267,215,519	27,060,679	46,467,638
1956	-	-	4,006,193	79,950	7,629,383	11,715,526	278,931,045	39,497,871	85,965,509
1957	-	68,581	3,270,122	110,268	11,391,245	14,840,216	293,771,261	61,072,588	147,038,097
1958	-	184,396	2,420,584	121,218	17,423,878	20,150,076	313,921,337	96,471,136	243,509,233
1959	89,746,993	171,036	2,285,725	84,984	26,539,977	118,828,715	432,750,052	150,472,527	393,981,760
1960	282,717,065	316,975	3,603,140	49,350	37,095,301	323,781,831	756,531,883	200,969,615	594,951,375
1961	-	314,121	3,073,861	37,100	47,920,332	51,345,414	807,877,297	273,636,456	868,587,831
1962	489,481,111	517,722	8,412,207	62,200	66,096,334	564,569,574	1,372,446,871	376,675,900	1,245,263,731
1963	12,807,587	668,339	8,435,184	52,950	76,999,225	98,963,285	1,471,410,156	450,866,484	1,696,130,215
1964	95,874,326	820,343	9,798,573	45,800	88,400,230	194,939,272	1,666,349,428	506,783,510	2,202,913,725
1965	33,740,309	1,072,699	8,731,378	38,450	102,862,540	146,445,376	1,812,794,804	594,222,732	2,797,136,457
1966	209,199,893	1,367,250	6,869,277	41,700	136,987,537	354,465,657	2,167,260,461	801,724,611	3,598,861,068
1967	510,109,742	1,891,515	6,208,936	41,400	157,607,609	675,859,202	2,843,119,663	947,214,691	4,546,075,759
1968	1,346,487,097	2,145,178	8,230,787	52,300	201,136,931	1,558,052,293	4,401,171,956	1,179,912,209	5,725,987,968
1969	111,660,685	1,923,632	8,312,607	41,650	240,090,666	362,029,240	4,763,201,196	1,443,870,472	7,169,858,440
1970	945,064,773	1,745,864	8,607,855	47,700	283,494,568	1,238,960,760	6,002,161,956	1,707,593,450	8,877,451,890
1971	96,304,522	1,891,000	7,741,997	32,300	350,042,488	456,012,307	6,458,174,263	2,135,677,078	11,013,128,968
1972	2,251,347,556	2,019,533	7,984,897	49,550	363,556,339	2,624,957,875	9,083,132,138	2,229,179,121	13,242,308,089
1973	3,082,462,611	2,391,249	8,948,816	52,650	401,126,114	3,494,981,440	12,578,113,578	2,486,864,855	15,729,172,944
1974	5,022,860,815	2,048,439	13,532,754	32,550	560,283,889	5,598,758,447	18,176,872,025	3,570,053,959	19,299,226,903
TOTAL--All States	14,829,362,815	21,557,872	139,096,207	1,313,670	3,185,541,461	18,176,872,025	18,176,872,025	19,299,226,903	19,299,226,903

NOTE: Revenue = charges and/or collection--bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31, 1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500--leases on appeal validated.

Source: U.S. Department of Interior, U.S. Geological Survey, Outer Continental Shelf Statistics, June 1975

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year--All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
Cumulative 1953-1974	$14,829,362,765	$21,557,872	$139,096,207	$1,313,670	$3,185,541,461	$18,176,872,025	$18,176,872,025	$19,299,226,903	$19,299,226,903
1975	1,088,133,152	2,085,885	17,522,037	39,500	615,544,570	1,723,325,144	19,900,197,169	3,924,914,930	23,224,141,833
1976	2,242,898,467	2,128,336	23,370,502	38,400	699,424,790	2,967,860,495	22,868,057,664	4,402,439,996	27,626,581,829
1977	1,568,564,745	1,678,957	19,830,026	21,106	919,647,466	2,509,742,300	25,377,799,964	5,774,056,434	33,400,638,263
1978	1,767,042,064	2,207,183	21,512,669	3,950	1,150,346,082	2,941,111,948	28,318,911,912	7,096,500,055	40,497,138,318
1979	5,078,861,692	2,088,478	20,287,300	6,632	1,515,347,950	6,616,592,052	34,935,503,964	9,273,278,309	49,770,416,627
1980	4,204,640,257	2,291,433	19,062,498	—	2,136,663,425	6,362,657,613	41,298,161,527	13,055,515,832	62,825,932,459
1981	6,602,665,712	2,250,300	22,342,953(e)	—	3,288,550,224	9,915,809,189	51,213,970,716	20,199,823,201	83,025,755,660
1982	3,987,490,009	2,393,759	20,061,651	—	3,814,871,635	7,824,817,054	59,038,787,770	22,573,099,138	105,598,854,798
1983	5,749,016,369	4,463,658	32,267,348	—	3,375,688,165	9,161,435,540	68,200,223,310	21,033,511,310	126,632,366,005
TOTAL All States	47,092,176,403	43,145,861	334,741,273	1,423,258	20,701,625,768	68,173,112,563	68,200,223,310	126,632,366,005	126,632,366,005

(e) Estimated by U.S.G.S.

Source: U.S. Department of the Interior, U.S. Geological Survey.

Section XI
Table 11

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE	TOTAL AMOUNT OF ALL BIDS RECEIVED	TOTAL BONUS
10/13/54	LA.	$ 302,924,834	$ 116,378,476
11/9/54	TEX.	73,801,896	23,357,029
TOTAL		376,726,730	139,735,505
7/12/55	TEX.	9,027,610	8,437,462
7/12/55	LA.	314,212,441	100,091,264
TOTAL		323,240,051	108,528,726
5/26/59	FLA.	1,711,872	1,711,872
8/11/59	LA.	174,411,628	88,035,120
TOTAL		176,123,500	89,746,992
2/24/60	TEX.	56,400,897	35,732,031
2/24/60	LA.	518,774,752	246,909,784
TOTAL		575,175,649	282,641,815
3/13/62	LA.	314,218,540	177,260,305
3/16/62	TEX.	557,720	557,720
3/16/62	LA.	604,799,998	267,775,677
10/9/62	LA.	66,265,290	43,887,359
TOTAL		985,841,548	489,481,061
5/14/63	CAL.	13,989,953	12,807,587
4/28/64	LA.	93,850,051	60,340,626
10/1/64	ORE.	43,049,543	27,768,772
10/1/64	WASH.	10,530,210	7,764,928
TOTAL		147,429,804	95,874,326
3/29/66	LA.	275,384,739	88,845,963
10/18/66	LA.	185,214,816	99,164,930
12/15/66	CAL.	89,937,020	21,189,000
TOTAL		550,536,575	209,199,893
6/13/67	LA.	1,627,749,269	510,079,178
2/6/68	CAL.	1,293,601,113	602,719,262
5/21/68	TEX.	1,620,393,212	593,899,046
11/19/68	LA.	398,430,736	149,868,789
TOTAL		3,312,425,061	1,346,487,097
1/14/69	LA.	71,036,938	44,037,339
12/16/69	LA.	230,460,743	66,908,196
TOTAL		301,497,681	110,945,535

Source: U.S. Department of the Interior, Bureau of Land Management

Section XI
Table 11a

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS
7/21/70	LA.	$ 163,451,158	$ 97,769,013
12/15/70	LA.	2,877,429,559	846,784,660
TOTAL		3,040,880,717	944,553,673
11/4/71	LA.	172,735,981	96,304,523
9/12/72	LA.	1,599,155,464	585,827,925
12/19/72	LA.	6,191,018,227	1,665,519,631
TOTAL		7,962,909,672	2,347,652,079
6/19/73	TEX.-LA.	6,248,160,989	1,591,397,380
12/20/73	MISS., LA., FLA.	3,404,892,969	1,491,065,231
TOTAL		9,653,053,958	3,082,462,611
3/28/74	LA.	6,474,003,574	2,092,510,854
5/29/74	TEX.	3,354,292,556	1,471,851,831
7/30/74	LA.-TEX.	88,799,354	30,236,800
10/16/74	LA.	2,514,518,419	1,427,242,455
10/16/74	LA.ROYALTY	7,238,500	1,018,875
TOTAL		12,438,852,403	5,022,860,815
2/04/75	Texas	$ 484,721,874	$ 274,690,955
5/28/75	La.-Tex.	402,752,335	232,916,050
7/29/75	La.-Tex.	317,001,333	163,214,006
12/11/75	S. Cal.	901,960,364	417,312,141
TOTAL		2,106,435,906	1,088,133,152
2/18/76	Fla., La., Tx.	428,003,629	175,976,493
4/13/76	Alaska	1,732,170,868	559,836,587
8/17/76	MAL(1)	3,153,411,802	1,127,936,425
11/16/76	La.-Tx.	833,015,950	379,148,962
TOTAL		6,146,602,249	2,242,898,467
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432
10/27/77	Alaska	643,559,393	388,488,081
	(Royalty)	33,516,288	9,983,232
TOTAL		3,605,166,895	1,568,564,745
3/28/78	S. Al	150,927,700	100,743,443
4/25/78	La.-Tx.	1,559,345,259	733,656,893
10/31/78	Al., Fla., Ms.	87,592,568	61 176,730
12/19/78	La.-Tx.	2,355,263,307	871,464,998
TOTAL		4,153,128,834	1,767,042,064

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(1) Middle Atlantic

Source: U.S. Department of the Interior, Minerals Management Service.

Section XI
Table 11b

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS
2/28/79	MAL(1)	$ 66,005,881	$ 40,001,631
6/29/79	Ca.	994,683,700	572,825,418
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022
11/27/79	La.-Tx.	4,683,195,907	1,913,337,938
12/11/79	Ak	945,445,102	488,691,138
12/18/79	NA(2)	1,270,789,889	816,516,546
TOTAL		11,294,111,099	5,078,861,693
9/30/80	La.	7,109,464,692	2,676,927,673
10/21/80	Ak.	197,417,470	109,751,073
11/18/80	Tx.	3,500,570,271	1,417,961,511
TOTAL		10,807,452,033	4,204,640,257
5/28/81	Ca.	4,885,810,689	2,038,566,639
6/30/81(6)	Ak.	5,582,362	170,496
7/21/81	GOM(4)	5,227,548,535	2,649,628,752
8/04/81	So. Atl.	561,050,365	342,766,174
9/29/81	Cook In.	4,697,309	4,405,899
10/20/81	GOM(4)	2,402,400,552	1,243,468,752
12/08/81	MAL	578,952,000	323,659,000
TOTAL		13,666,041,812	6,602,665,712
2/09/82	GOM	2,683,699,843	1,193,654,719
6/11/82	Ca.	210,486,278	117,875,281
8/05/82	Atl.,Ca.,Ak.	14,439,195	11,149,450
10/13/82	Ak.	4,589,972,518	2,055,632,336
11/17/82	GOM	1,185,091,610	609,178,223
TOTAL		8,683,689,444	3,987,490,009
3/08/83	GOM	48,755,129	37,570,900
3/15/83	Ak.	371,803,984	317,873,372
4/12/83	Ak.	547,731,283	426,458,830
4/26/83	MAL	86,822,680	68,410,240
5/25/83	GOM	4,582,847,288	3,367,606,134
7/26/83	SAL	14,562,040	13,362,040
8/24/83	GOM	2,350,359,669	1,501,712,517
11/30/83	C.Ca.	24,045,646	16,022,336
TOTAL		8,026,927,719	5,749,016,369
1/05/84	EGOM	500,261,361	310,586,261
4/17/84	Ak.Nav.	1.148,701,653	516,317,331
4/24/84	CGOM	2,126,776,904	1,323,036,649
7/18/84	WGOM	1,263,576,675	844,850,488
8/22/84	Ak-Diap.	1,365,968,674	866,860,327
TOTAL		6,405,285,267	3,861,651,056

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(1) Middle Atlantic
(2) North Atlantic
(4) Gulf of Mexico
(6) RESALE

Source: U.S. Department of the Interior, Minerals Management Service.

UNITED STATES OFFSHORE PLATFORMS AND OTHER STRUCTURES(1)
as of December 31, 1983

	Federal Waters	State Waters	Total
Louisiana	2,800	800	3,600
Texas	256	200	456
California	15	15	30
Alaska	3	14	
TOTALS	3,074	1,029	4,103

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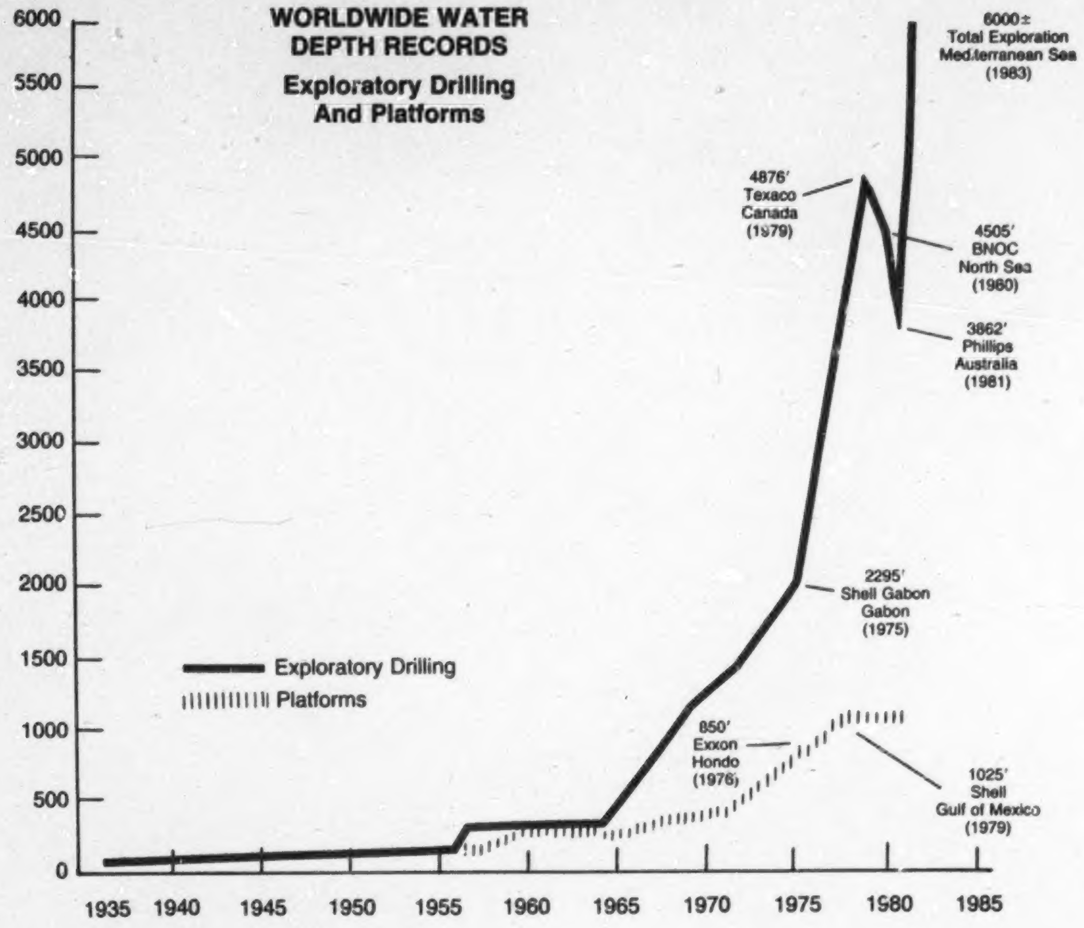
(1) Other structures includes well guards, caissons, and artificial islands.

Source: U.S. Department of Interior, MMS, Federal Offshore Statistics

Section XI
Table 13



WORLDWIDE WATER DEPTH RECORDS

Exploratory Drilling And Platforms

SOURCE: Offshore Magazine, June 20, 1982.

EIGHT-YEAR OCS BLOWOUT EXPERIENCE, 1971-82.

Type	No.	Pollution	Fatalities Injuries	Other Major Damage
Explor. Drig.	25	None (gas only)		Loss of 2 jackup rigs
Dev. Drig.	21	None (all gas)	4 minor injuries	Loss of 2 platforms
Prod./Comp/WO	31	791 bbls.	None	1 platform destroyed, 1 badly damaged
Total	77			

Source: U.S. Department of Interior, Federal Offshore Statistics, December 1983

Section XI
Table 15

OIL SPILLS OF 50 BARRELS OR MORE IN FEDERAL WATERS
1970-1983

Year	Gulf of Mexico: No. Spills	Gulf of Mexico: Bbls. Spilled	Pacific: No. Spills	* Pacific: Bbls. Spilled
1970	7	84,323	0	—
1971	11	1,285	0	—
1972	3	4,450	0	10,235
1973	4	22,175	0	1,825
1974	8	22,721	0	1,460
1975	2	266	0	1,460
1976	3	4,714	0	1,458
1977	4	700	0	1,458
1978	2	1,239	0	1,456
1979	5	2,100	0	1,456
1980	5	2,093	0	1,456
1981	4	5,294	0	1,456
1982	4	942	0	1,456
1983	5	591	0	912
TOTAL	67	152,893	0	26,178

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* This column shows estimated seepage from the Santa Barbara blowout of January 28, 1969. Seepage in the 10 days following the blowout has been variously estimated at 10,000 to 71,500 barrels, but totals above do not include the first 10 days. The figure for 1972 includes seepage between February 7, 1969 and December 31,1972.

Source: Gulf of Mexico Regional OCS Office and Pacific Regional OCS Office.

Section XI
Table 16

HISTORICAL DATA ON LEASING
CONTINENTAL SEABEDS ADJACENT TO THE UNITED STATES
(THOUSANDS OF SQUARE STATUTE MILES)

Region	State Lands(1)	OCS "Shelf" (Between State Limit and 200 Meter Depth)	Continental Slope (Between 200 and 2500 Meter Depths)	Total OCS
Hawaii	—	0.4(2)	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5 559,040,000 Ac.	478.7 306,368,000 Ac.	1,352.2 865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
TOTAL FEDERAL OCS ACREAGE EVER OFFERED FOR LEASE THROUGH 8/22/84	329,472,769	58.9	38.1
TOTAL FEDERAL OCS LEASED THROUGH 8/22/84	37,147,323	6.6	4.3
TOTAL FEDERAL OCS CURRENTLY UNDER LEASE 12/31/83(3)	18,500,000	3.3	2.1

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(1) Areas within three nautical miles of coastline, except for Texas and Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.

(2) Includes state areas.

(3) Approximate acreage figure is used because of constant company relinquishments of leases—approximately 200 leases relinquished each year.

Source: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

Section XI
Table 17

BASIN RANKING
5-YEAR OCS OIL AND GAS LEASING PROGRAM

	Resource Potential		Interest in Exploration
	Industry	Geological Survey	Industry
1.	Central & West Gulf	Central & West Gulf	Central & West Gulf
2.	Beaufort Sea	Chukchi	Santa Barbara
3.	Santa Barbara	Beaufort	Beaufort Sea
4.	Mid-Atlantic	Mid-Atlantic	Bristol Basin
5.	St. George Basin	St. George Basin	North Atlantic
6.	Bristol Basin	Santa Barbara	Mid-Atlantic
7.	Southern California	Eastern Gulf of Alaska	Central & North California
8.	North Atlantic	North Atlantic	Southern California
9.	Norton Basin	Cook Inlet	St. George
10.	Chukchi Sea	Southern California	Norton
11.	Navarin Basin	Eastern Gulf of Mexico	Eastern Gulf
12.	Central & Northern California	Bristol Bay Basin	Navarin
13.	Blake Plateau	Norton	Cook Inlet
14.	Hope Basin	Navarin	Hope Basin
15.	Eastern Gulf of Mexico	South Atlantic	Blake Plateau
16.	Cook Inlet	Northern California	Gulf of Alaska
17.	Gulf of Alaska	Blake Plateau	Chukchi Sea
18.	South Atlantic	Kodiak	South Atlantic
19.	Kodiak	Hope	Washington-Oregon
20.	Washington-Oregon	Washington-Oregon	Florida Straits
21.	Southern Aleutian	Aleutian Shelf	Kodiak Shelf
22.	Florida Straits	Florida Straits	South Aleutian

Source: Department of Interior; March 9, 1979; Secretarial Issue Document, 5-Year Lease Schedule.

BASIC PETROLEUM DATA BOOK

SECTION XII. TRANSPORTATION

Table 1. U.S. Gas Utility Industry Miles of Pipeline and Main by Type
Table 2. U.S. Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
Table 3. World Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
Table 4. Age Distribution of World Tanker Fleet by Major Flag of Registry
Table 5. Spills of Oil and Other Substances
Table 6. Total and Average Consumption of Motor Fuel by U.S. Motor Vehicles
Table 7. Total and Average Travel by U.S. Motor Vehicles
Table 8. U.S. Car Sales by Market-Class Comparisons

Section XII
Table 1

U.S. GAS UTILITY INDUSTRY
MILES OF PIPELINE AND MAIN, BY TYPE(1)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1947	27.1	88.0	127.8	242.9
1948	29.2	92.0	138.2	259.4
1949	30.9	98.3	152.3	281.5
1950	32.8	113.1	241.6	387.5
1951	34.6	119.1	252.9	406.6
1952	38.4	123.4	263.5	425.3
1953	41.5	130.4	274.5	446.4
1954	43.8	139.0	287.7	470.5
1955	45.7	145.9	305.1	496.7
1956	47.6	153.8	323.8	525.2
1957	50.0	160.1	338.7	548.8
1958	52.0	165.4	354.1	571.5
1959(2)	54.1	174.3	371.4	599.8
1960(3)	55.8	183.7	391.4	630.9
1961	56.7	191.9	410.4	659.0
1962	58.7	196.4	428.1	683.2
1963	60.7	200.9	448.3	709.9
1964	61.0	205.4	469.8	736.2
1965	61.7	211.3	494.5	767.5
1966	63.0	217.0	519.6	799.6
1967	63.7	225.4	539.2	828.3
1968	64.4	234.5	562.7	861.6
1969	64.9	248.1	578.6	891.6
1970	66.3	252.2	594.8	913.3
1971	66.2	254.8	610.4	931.4
1972	66.9	258.1	623.1	948.1
1973	65.9	263.1	633.8	962.9
1974	66.4	262.2	645.6	974.1
1975	68.5	262.6	648.2	979.3
1976	70.3	258.2	659.1	987.7
1977	71.5	260.5	666.9	998.9
1978	74.9	260.6	677.5	1,013.8
1979	77.8	263.5	688.5	1,029.8
1980	83.2	266.9	700.1	1,050.2
1981	86.2	269.7	708.3	1,064.2
1982	90.5	271.7	720.9	1,083.1
1983	91.9	273.5	729.7	1,095.1

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(1) Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.
(2) These figures and those for subsequent years include Hawaii.
(3) These figures and those for subsequent years include Alaska.

SOURCE: American Gas Association, Gas Facts

Section XII
Table 2

U.S. TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

Year [(1)]	ACTUAL FLEET Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1947	951	8,784,894	14,035,000	13.86	800.5
Oct. 1, 1947	744	6,995,223	11,171,400	14.07	646.4
April 1, 1948	621	5,878,786	9,395,500	14.0	541.9
Jan. 1, 1949	593	5,656,497	9,016,200	14.1	524.2
Sept. 1, 1949	578	5,439,009	8,639,800	14.4	513.2
Sept. 1, 1950	559	5,322,698	8,460,700	14.5	505.1
April 1, 1951	560	5,363,699	8,520,800	14.6	510.0
Oct. 1, 1952	550	5,284,400	8,446,400	14.6	508.3
1953	550	5,475,800	8,639,800	14.8	525.3
1954	525	5,376,500	8,446,200	15.0	521.7
1955	490	5,094,900	7,989,500	15.1	497.4
1956	477	5,040,700	7,892,700	15.2	493.4
1957	470	5,097,400	7,959,900	15.4	503.1
1958	474	5,316,100	8,309,200	15.5	529.5
1959	485	5,593,600	8,766,300	15.6	563.0
1960	478	5,664,000	8,894,600	15.7	575.0
1961	469	5,751,400	9,085,300	15.8	590.1
1962	456	5,726,900	9,045,300	15.9	589.8
1963	440	5,631,000	8,912,600	15.9	583.5
1964	422	5,553,400	8,816,300	16.0	579.3
1965	410	5,479,800	8,733,500	16.0	575.8
1966	387	5,343,700	8,549,900	16.1	566.3
1967	382	5,322,800	8,550,700	16.1	566.4
1968	380	5,337,300	8,655,700	16.1	574.6
1969	365	5,319,400	8,797,900	16.1	584.9
1970	350	5,305,800	8,911,000	16.2	593.4
1971	347	5,453,100	9,218,200	16.3	616.5
1972	328	5,411,300	9,253,300	16.4	621.0
1973	312	5,507,000	9,525,200	16.3	640.3
1974	306	5,798,068	10,236,221	16.4	689.9
1975	293	5,943,289	10,601,370	16.4	714.5
1976	290	6,357,974	11,565,138	16.4	779.3
1977	298	7,128,519	13,054,810	16,3	875.4
1978	316	8,075,188	14,613,837	16.3	908.8
1979	313	9,061,313	16,559,318	16.3	1,113.3

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(1) Figures as of December 31; other figures as of date indicated.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976
Sun Transport Inc., Analysis of World Tank Ship Fleet, 1977-1979

Section XII
Table 3

WORLD TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

Year (1)	ACTUAL FLEET Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1947	1,925	15,692,962	24,278,900	12.87	1,285.1
Oct. 1, 1947	1,868	15,286,141	23,585,800	13.0	1,271.4
April 1, 1948	1,863	15,364,543	23,692,400	12.9	1,264.3
Jan. 1, 1949	1,872	15,459,372	23,815,800	12.1	1,274.4
Sept. 1, 1949	1,955	16,249,603	24,932,400	13.2	1,352.3
Sept. 1, 1950	2,056	17,567,202	26,957,200	13.3	1,469.7
April 1, 1951	2,131	18,453,538	28,255,100	13.3	1,544.1
Oct. 1, 1952	2,292	20,417,100	31,318,300	13.4	1,726.8
1953	2,502	23,473,900	35,732,300	13.6	2,003.5
1954	2,602	25,733,900	39,137,300	13.9	2,244.0
1955	2,681	27,338,600	41,623,100	14.0	2,398.1
1956	1,778	29,455,500	44,882,600	14.2	2,614.2
1957	2,954	33,046,800	50,424,800	14.4	2,988.2
1958	3,146	37,020,100	56,640,700	14.6	3,403.3
1959	3,276	40,831,500	62,657,800	14.8	3,826.1
1960	3,264	42,801,300	65,780,400	15.1	4,076.0
1961	3,250	44,701,000	68,859,400	15.2	4,304.8
1962	3,259	46,630,100	71,995,700	15.3	4,542.9
1963	3,279	49,168,600	76,179,500	15.4	4,841.3
1964	3,359	54,468,900	85,125,700	15.6	5,455.3
1965	3,436	59,158,200	93,171,900	15.7	5,984.4
1966	3,524	64,787,600	102,908,800	15.7	6,641.4
1967	3,613	69,965,500	112,366,200	15.7	7,274.6
1968	3,775	78,169,730	128,128,100	15.8	8,311.9
1969	3,893	86,821,100	146,029,100	15.8	9,461.5
1970	4,002	97,599,779	167,940,200	15.8	10,924.9
1971	4,207	111,681,295	193,891,100	15.8	12,577.0
1972	4,342	124,431,430	221,204,200	15.8	14,340.5
1973	4,572	142,413,985	256,821,730	15.8	16,634.2
1974	4,892	165,723,032	302,276,779	15.7	19,542.5
1975	5,112	188,212,834	348,586,400	15.7	22,547.7
1976	5,140	203,938,871	382,533,975	15.7	24,762.9
1977	5,013	206,348,687	390,165,427	15.7	25,249.8
1978	4,731	202,581,402	386,123,276	15.7	24,984.4
1979	4,800	205,823,484	390,206,275	15.7	25,257.7

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(1) Figures as of December 31; other figures as of date indicated.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976
Sun Transport Inc., Analysis of World Tank Ship Fleet, 1977-1979

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY(1)
(As of December 31, 1979)

Year of Construction	UNITED STATES		LIBERIA		UNITED KINGDOM		JAPAN		NORWAY		GREECE		FRANCE		PANAMA	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Before 1955	110	2,564,988	12	263,014	6	126,106	7	128,688	1	17,281	19	271,416	1	18,471	17	442,559
1955	6	184,687	3	116,360	3	63,162	0	0	0	0	6	105,093	0	0	0	0
1956	6	185,697	4	104,954	0	0	0	0	2	41,420	14	316,685	0	0	4	87,646
1957	10	333,468	7	231,313	1	8,959	1	3,677	1	19,706	7	169,451	0	0	2	61,884
1958	13	416,145	11	449,190	6	130,866	1	44,673	1	10,679	22	488,403	0	0	11	298,137
1959	15	549,097	18	970,876	6	131,034	2	63.951	3	59,759	20	508,183	0	0	13	473,088
1960	9	364,774	12	367,787	7	161,376	0	0	1	19,713	18	550,710	3	75,215	9	272,421
1961	7	310,691	19	680,674	7	248,409	2	54,805	3	125,999	9	283,683	3	112,088	5	174,921
1962	4	225,430	12	445,814	7	258,093	4	276,350	3	63,597	12	442,080	2	9,370	7	231,931
1963	5	201,523	17	1,119,892	7	276,645	1	74,259	3	84,963	15	861,644	2	91,344	6	140,880
1964	5	196,409	43	2,705,875	11	435,930	5	360,103	1	45,975	19	1,332,118	0	0	7	471,561
1965	2	95,499	44	2,615,585	13	477,689	10	637,051	1	20,791	25	1,706,697	3	92,727	9	557,841
1966	1	37,884	37	3,117,685	5	228,716	9	667,449	5	317,953	17	1,243,893	2	147,164	10	637,904
1967	1	94,518	40	3,377,269	8	517,065	12	906,582	10	462,106	23	1,927,749	2	37,315	5	379,959
1968	3	113,866	33	3,654,003	16	819,392	10	901,871	12	735,795	13	1,421,729	5	544,350	20	854,949
1969	9	420,703	35	4,570,172	11	1,224,381	20	2,679,922	12	1,368,931	14	2,408,120	7	825,955	11	175,739
1970	11	568,847	56	8,529,683	18	2,315,488	13	2,004,920	17	1,889,124	16	1,948,995	4	702,546	1	10,408
1971	8	473,420	78	10,299,128	21	2,108,182	25	3,593,584	24	2,909,981	14	1,178,692	14	2,257,040	5	262,745
1972	7	451,733	59	9,906,735	30	2,398,922	33	5,870,899	13	1,761,310	16	1,911,302	7	900,340	11	1,614,325
1973	8	777,861	68	12,118,784	31	2,980,141	47	5,946,034	23	4,422,034	13	1,075,055	12	2,171,232	8	462,065
1974	10	851,690	97	16,281,390	31	4,778,593	37	3,512,975	27	3,437,932	9	841,709	13	2,901,466	12	1,549,355
1975	13	927,970	117	18,510,541	34	4,417,194	33	4,105,567	34	4,916,093	2	162,390	7	1,162,281	14	1,343,940
1976	12	1,170,299	77	12,085,820	15	2,363,920	38	4,441,803	34	3,846,425	10	1,541,028	13	2,923,019	17	1,469,025
1977	15	1,620,099	41	6,179,878	11	1,090,012	23	827,266	18	1,550,086	3	525,249	6	957,448	8	1,061,674
1978	12	1,463,646	22	1,857,941	10	1,413,655	31	428,506	11	969,707	1	32,389	0	0	3	207,587
1979	11	1,958,374	22	1,476,313	9	522,296	50	1,194,154	13	476,950	2	167,717	1	554,000	5	56,026
Total	313	16,559,318	984	122,036,676	324	29,496,226	414	38,725,069	273	29,574,310	339	23,422,180	107	16,483,371	220	13,298,570
Average Age	11 yrs. 3 mos.		7 yrs. 4 mos.		7 yrs. 1 mo.		7 yrs. 1 mo.		6 yrs. 3 mos.		11 yrs. 6 mos.		6 yrs. 4 mos.		9 yrs. 7 mos.	

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(1) Ocean-going vessels 2,000 gross tons and over.

Source: Sun Transport, Inc., Analysis of World Tank Ship Fleet

Section XII
Table 4a

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY(1)
(As of December 31, 1979)

	ITALY		SWEDEN		U.S.S.R.		WEST GERMANY		SPAIN		SINGAPORE		ALL OTHERS		TOTAL	
Year of Construction	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Before 1955	17	253,673	0	0	12	133,791	0	0	2	16,465	4	61,085	79	1,131,569	287	5,429,086
1955	4	59,790	0	0	10	103,263	0	0	0	0	1	5,325	12	164,661	45	802,341
1956	4	64,054	0	0	13	132,941	0	0	0	0	3	53,583	11	195,110	61	1,182,090
1957	6	128,747	0	0	13	126,615	0	0	0	0	2	42,122	14	225,765	64	1,351,707
1958	8	156,843	0	0	8	50,768	0	0	3	27,650	5	115,916	17	347,729	106	2,536,999
1959	4	81,244	0	0	14	151,755	0	0	2	28,810	3	102,158	23	604,936	123	3,724,891
1960	5	182,911	0	0	17	319,978	0	0	6	88,503	1	20,264	35	944,615	123	3,368,267
1961	6	191,483	0	0	11	155,249	0	0	2	43,597	0	0	22	562,829	96	2,944,428
1962	1	38,594	1	7,291	18	306,530	1	54,142	4	89,581	2	109,421	24	675,086	102	3,233,310
1963	5	259,774	0	0	19	401,045	1	48,800	2	18,710	1	44,066	16	684,269	100	4,307,814
1964	2	52,898	0	0	27	814,080	0	0	0	0	1	53,342	21	803,505	142	7,271,796
1965	4	59,906	2	7,978	24	564,950	0	0	2	59,713	2	8,080	30	1,287,265	171	8,191,772
1966	4	250,153	1	121,185	28	601,009	1	65,499	0	0	3	162,471	35	1,594,501	158	9,193,466
1967	2	99,380	1	3,400	19	240,685	2	217,809	3	188,450	0	0	39	1,353,498	167	9,805,785
1968	6	354,970	0	0	16	237,086	3	421,674	4	204,048	1	3,397	39	2,234,075	181	12,501,205
1969	7	249,641	6	367,207	24	262,114	1	257,995	6	336,175	1	75,573	35	2,310,477	199	17,533,105
1970	8	823,623	3	26,604	26	275,648	2	221,713	6	261,297	0	0	30	2,939,636	211	22,518,532
1971	5	634,772	0	0	13	102,950	1	2,591	4	420,764	5	244,329	22	1,871,173	239	26,359,351
1972	8	1,094,876	3	518,320	14	93,342	1	5,702	4	818,344	3	207,544	24	974,059	233	28,527,753
1973	16	1,411,201	10	642,717	16	110,593	3	317,158	6	568,871	2	188,887	54	4,306,806	317	37,499,439
1974	13	1,616,840	4	504,203	5	30,769	13	2,148,098	6	738,787	12	1,023,726	75	6,185,734	364	46,403,267
1975	18	1,601,067	5	749,239	19	681,903	7	633,729	7	1,033,439	21	1,768,934	74	6,525,784	405	48,540,071
1976	8	1,533,420	7	1,333,566	21	546,587	10	1,522,783	9	1,163,379	15	1,364,351	71	6,076,414	357	43,381,839
1977	6	649,917	4	574,565	16	372,342	2	12,811	12	2,292,617	1	96,531	50	4,813,669	216	22,624,164
1978	6	922,144	1	498,995	20	730,336	1	4,000	7	895,958	0	0	36	1,617,006	161	11,041,870
1979	1	10,250	7	507,900	16	459,173	0	0	4	74,469	3	161,600	28	2,312,705	172	9,931,927
Total	174	12,782,171	55	5,863,170	439	8,005,502	49	5,934,504	101	9,369,627	92	5,912,705	916	52,742,876	4,800	390,206,275
Average Age	7 yrs. 7 mos.		4 yrs. 7 mos.		10 yrs. 8 mos.		6 yrs. 3 mos.		5 yrs. 5 mos.		6 yrs. 7 mos.		7 yrs 9 mos.		7 yrs. 8 mos.	

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(1) Ocean-going vessels 2,000 gross tons and over.

Source: Sun Transport, Inc., Analysis of World Tank Ship Fleet

Section XII
Table 5

SOURCES OF OIL SPILLS AND OTHER SUBSTANCES
1983
(GALLONS)

SOURCE	OIL		HAZARDOUS		OTHER		TOTAL	
	NO.	VOLUME	NO.	VOLUME	NO.	VOLUME	NO.	VOLUME
VESSELS								
Tank Ships	263	142,880	10	1,076	28	4,250	301	148,206
Tank Barges	545	1,803,277	16	68,818	11	918	572	1,873,013
Dry Cargo Barges	13	1,273	-	-	3	97	16	1,370
Dry Cargo Ships	177	102,134	-	-	12	171	209	102,305
Combatants	163	22,312	-	-	3	353	166	22,665
Other	1,153	242,502	4	165	63	797	1,220	243,464
TOTAL	2,334	2,314,378	30	70,059	120	6,586	2,484	2,391,023
LAND VEHICLES								
Rail	47	78,246	26	35,119	17	8,571	90	121,936
Highway	293	193,970	27	50,716	32	19,818	352	264,504
Other	60	6,634	1	0	9	4,683	70	11,317
TOTAL	412	279,027	55	85,835	59	33,077	526	397,939
NON-TRANSPORT, ON/OFFSHORE								
Refinery	90	35,750	11	137,627	14	2,550	115	175,927
Bulk Storage	236	303,756	7	1,460	7	5,670	250	310,886
Onshore Production	130	606,307	-	-	7	169,265	137	775,572
Offshore Production	1,187	112,287	1	114	27	568	1,215	113,197
Other	499	129,287	132	546,766	129	10,610,497	760	11,286,550
TOTAL	2,142	1,187,615	151	685,967	184	10,788,550	2,477	12,662,132
PIPELINES	577	2,967,276	3	1,052	16	411	596	2,968,739
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	72	22,333	-	-	4	2,245	76	24,578
Bulk Transfer	316	162,499	14	18,001	30	650	360	181,150
Non-Bulk Transfer	25	1,385	-	-	4	4,004	29	5,389
Other	134	19,686	1	336	11	115	146	20,137
TOTAL	547	205,903	15	18,337	49	7,014	611	231,254
LAND FACILITIES	116	46,395	13	1,247	12	17,634	141	65,276
MISC/UNKNOWN	3,080	1,269,471	34	932,991	1,020	308,840	4,134	2,511,302
GRAND TOTAL	9,208	8,270,065	301	1,795,488	1,460	11,162,112	10,969	21,227,665

Source: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1982 and 1983.

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1947	30,872	20,086	651	6,650	7,243	1,089	176	778	4,420
1948	33,394	21,369	640	7,379	8,189	1,110	184	780	4,239
1949(3)	36,453	22,957	630	8,028	8,666	1,079	209	711	3,402
1950(3)	40,334	25,238	626	8,604	9,526	1,107	224	782	3,491
1951(3)	42,682	26,990	632	9,001	10,138	1,132	230	836	3,635
1952(3)	43,818	28,729	656	9,207	10,844	1,178	240	890	3,708
1953(3)	46,460	30,249	654	9,576	11,418	1,192	244	937	3,840
1954	48,413	30,915	639	9,726	12,541	1,289	233	755	3,240
1955	52,092	33,548	644	10,413	13,308	1,278	255	771	3,024
1956	54,249	35,326	651	10,737	13,978	1,302	255	802	3,145
1957	56,375	36,769	652	10,961	14,271	1,302	264	825	3,125
1958	57,392	38,095	644	11,159	14,514	1,301	270	809	2,996
1959(4)	60,132	40,056	666	11,671	15,453	1,324	265	823	3,106
1960	62,258	41,169	661	11,945	15,882	1,330	272	827	3,040
1961	63,870	42,033	658	12,291	16,443	1,338	281	830	2,954
1962	66,638	43,771	657	12,809	17,089	1,334	288	837	2,906
1963	69,842	45,246	648	13,360	18,432	1,380	298	838	2,812
1964	72,969	47,567	652	14,013	19,470	1,389	305	864	2,833
1965	76,634	50,275	656	14,795	19,935	1,347	314	894	2,847
1966	80,106	53,312	666	15,517	20,415	1,316	324	896	2,765
1967	82,367	55,110	669	16,193	21,673	1,338	338	910	2,692
1968	85,793	58,524	682	16,995	23,482	1,382	352	932	2,648
1969	89,156	62,448	700	17,871	24,727	1,384	364	947	2,602
1970	92,095	65,784	714	18,748	25,600	1,365	379	944	2,491
1971	96,144	69,514	723	19,802	27,086	1,368	397	947	2,385
1972	100,658	73,463	730	21,239	30,718	1,446	407	881	2,165
1973	106,119	78,011	735	23,233	31,615	1,361	426	847	1,988
1974	109,823	74,217	676	24,630	31,226	1,268	447	858	1,919

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.
(3) Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953; Bureau of Public Roads data not available
(4) Includes Alaska and Hawaii beginning in 1959.

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data", Federal Highway Administration after 1969. American Petroleum Institute

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1975	111,679	76,457	685	25,776	31,632	1,227	462	895	1,937
1976	115,170	78,847	685	27,779	35,890	1,292	478	964	2,015
1977	118,711	80,677	680	29,562	37,964	1,284	492	984	2,002
1978	121,717	83,775	688	31,703	40,271	1,270	500	1,021	2,041
1979	125,750	80,233	638	33,350	40,859	1,225	520	1,023	1,966
1980	127,448	73,375	603	33,637	40,150	1,194	529	1,076	2,034
1981	129,123	71,718	555	34,451	41,637	1,209	544	1,098	2,019
1982	129,500	72,848	563	35,145	39,416	1,122	559	1,120	2,003
1983	132,313	73,390	555	36,548	40,858	1,118	586	1,139	1,946

(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.

Source: U.S. Department of Transportation, Federal Highway Administration, "Highway Statistics," Table VM-1

Section XII
Table 7

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	300,440	9,732	14.95	66,203	9,955	9.14	4,251	24,153	5.46
1948	319,665	9,573	14.96	74,009	10,030	9.04	4,283	23,277	5.49
1949(3)	342,478	9,395	14.92	77,731	9,682	8.97	4,252	20,344	5.98
1950(3)	363,613	9,015	14.40	90,552	10,524	9.51	4,081	18,219	5.22
1951(3)	392,131	9,187	14.54	94,844	10,537	9.31	4,118	17,904	4.92
1952(3)	410,187	9,361	14.27	99,060	10,759	9.13	4,334	18,058	4.87
1953(3)	435,351	9,370	14.39	104,633	10,927	9.17	4,449	18,234	4.75
1954	450,605	9,308	14.57	105,844	10,833	8.44	4,408	18,918	5.84
1955	487,540	9,359	14.53	111,387	10,697	8.37	4,507	17,675	5.85
1956	507,138	9,348	14.36	116,100	10,813	8.31	4,605	18,059	5.74
1957	529,405	9,391	14.40	113,206	10,328	7.93	4,393	16,640	5.32
1958	544,873	9,494	14.30	115,470	10,348	7.96	4,310	15,963	5.33
1959(4)	572,976	9,529	14.30	123,154	10,552	7.97	4,348	16,408	5.28
1960	588,083	9,446	14.28	126,409	10,583	7.96	4,353	16,004	5.26
1961	604,557	9,465	14.38	128,582	10,461	7.82	4,396	15,644	5.30
1962	629,097	9,441	14.37	133,289	10,406	7.80	4,466	15,507	5.34
1963	645,371	9,240	14.26	155,569	11,644	8.44	4,483	15,044	5.35
1964	677,613	9,286	14.25	164,271	11,723	8.43	4,616	15,134	5.34
1965	711,594	9,286	14.15	171,436	11,587	8.60	4,782	15,229	5.35
1966	751,740	9,384	14.10	173,905	11,207	8.52	4,852	14,975	5.46
1967	774,203	9,399	14.05	182,456	11,268	8.42	4,894	14,479	5.38
1968	814,030	9,488	13.91	196,651	11,571	8.37	4,968	14,114	5.33
1969	858,858	9,633	13.75	206,680	11,565	8.36	5,037	13,838	5.32
1970	900,992	9,783	13.70	214,670	11,450	8.39	5,043	13,306	5.34
1971	954,155	9,924	13.73	227,037	11,465	8.38	5,097	12,807	5.38
1972	1,003,498	9,969	13.67	259,735	12,229	8.46	5,109	12,553	5.80
1973	1,036,455	9,767	13.29	267,147	11,499	8.45	4,960	11,643	5.86
1974	1,013,068	9,225	13.65	267,519	10,861	8.57	5,060	11,320	5.90

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(1) Travel by motorcycles included with passenger cars.
(2) Includes commercial, school and non-revenue buses.
(3) Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953; Bureau of Public Roads data not available
(4) Includes Alaska and Hawaii beginning in 1959.

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data." Federal Highway Administration after 1969
American Petroleum Institute

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1975	1,050,472	9,406	13.74	274,454	10,648	8.68	5,148	11,140	5.75
1976	1,098,147	9,535	13.93	307,957	11,086	8.58	5,761	12,045	5.98
1977	1,141,166	9,613	14.15	329,474	11,145	8.68	5,887	11,973	5.98
1978	1,194,287	9,812	14.26	347,909	10,974	8.64	6,072	12,143	5.95
1979	1,162,528	9,245	14.49	360,500	10,810	8.82	6,105	11,732	5.97
1980	1,129,887	8,865	15.32	384,570	11,433	9.58	6,400	12,103	5.95
1981	1,124,843	8,711	15.68	425,127	12,340	10.21	6,501	11,953	5.92
1982	1,191,623	9,202	16.36	394,219	11,217	10.00	6,639	11,872	5.93
1983	1,233,846	9,325	16.81	408,514	11,178	10.00	6,746	11,512	5.92

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(1) Travel by motorcycles included with passenger cars.

(2) Includes commercial, school and non-revenue buses.

Source: U.S. Department of Transportation, Federal Highway Administration, "Highway Statistics," Table VM-1

Section XII
Table 8

U.S. CAR SALES BY MARKET-CLASS COMPARISONS

Year	Subcompact	Compact	Intermediate	Standard	Luxury	Import	Total Sales
1970	1.82	19.75	23.50	36.76	2.91	15.26	8,396,595
1971	7.42	15.79	20.84	37.07	3.66	15.22	10,234,027
1972	8.17	15.34	22.59	35.38	3.76	14.76	10,935,365
1973	10.74	16.77	23.37	29.80	3.94	15.83	11,427,478
1974	10.60	22.72	24.41	22.72	3.71	15.85	8,851,265
1975	12.26	22.92	23.85	17.94	4.74	18.29	8,627,883
1976	9.90	24.12	27.76	18.80	4.67	14.78	10,099,573
1977	8.52	21.16	26.40	20.37	5.00	18.55	11,178,554
1978	8.77	22.90	26.60	18.42	5.62	17.69	11,303,909
1979	12.86	20.89	23.79	15.14	5.47	21.85	10,641,099
1980	15.41	20.96	21.37	11.09	4.48	26.69	8,973,345
1981	17.11	20.22	20.40	10.16	4.86	27.25	8,531,531
1982	16.65	17.51	19.03	13.39	5.56	27.84	7,977,570
1983	12.65	16.75	26.17	9.97	8.50	25.96	9,177,777
1984	14.04	18.08	25.54	10.61	8.25	23.48	10,391,775

Source: Automotive News, Market Data Book Issues
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BASIC PETROLEUM DATA BOOK

SECTION XIII. NATURAL GAS

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ESTIMATED PROVED WORLD RESERVES OF NATURAL GAS
ANNUALLY AS OF JANUARY 1
(Billions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations (1)	Total World
1967	289,333	43,450	64,550	397,333	215,070	158,155	32,450	88,582	891,590	150,000	1,041,590
1968	292,908	45,682	67,101	405,691	220,670	167,223	40,050	133,965	967,599	215,500	1,183,099
1969	287,350	47,666	62,900	397,916	223,775	168,345	52,724	141,176	983,936	343,000	1,326,936
1970	275,109	51,951	163,150	490,210	235,275	197,143	67,500	150,800	1,140,928	350,000	1,490,928
1971	290,746 (1)	53,376	73,100	417,222	354,262	191,516	56,330	147,731	1,167,061	440,000	1,607,061
1972	278,806 (1)	55,462	72,700	406,968	343,930	193,018	69,800	163,250	1,176,966	558,000	1,734,966
1973	266,085 (1)	52,936	79,218	398,239	344,150	189,015	101,236	178,400	1,211,040	664,400	1,875,440
1974	249,950 (1)	52,457	91,321	393,728	413,325	187,720	114,200	193,797	1,302,770	735,400	2,038,170
1975	237,132 (1)	56,708	100,214	394,054	672,670	314,974	115,880	202,826	1,700,404	846,000	2,546,404
1976	228,200 (1)	56,975	90,487	375,662	538,648	207,152	111,560	180,875	1,413,897	835,000	2,248,897
1977	216,026 (1)	58,282	90,325	364,633	536,460	209,077	120,010	141,905	1,372,085	953,000	2,325,085
1978	208,878 (1)	59,472	108,480	376,830	719,660	207,504	122,725	138,190	1,564,909	955,000	2,519,909
1979	200,302 (1)	59,000	112,950	372,252	730,660	186,290	119,850	143,260	1,552,312	945,000	2,497,312
1980	194,917 (1)	85,500	144,500	424,917	740,330	210,350	128,815	135,376	1,639,158	935,000	2,574,158
1981	199,021 (1)	87,300	159,811	446,132	752,415	208,470	126,290	159,315	1,692,622	953,900	2,646,522
1982	201,730 (1)	89,900	176,323	467,953	762,490	211,667	127,616	150,650	1,720,376	1,194,700	2,915,076
1983	201,512 (1)	97,000	186,591	485,103	769,730	189,423	146,247	156,736	1,747,239	1,283,800	3,031,039
1984	200,247(1)	90,500	186,396	477,143	775,047	189,644	156,235	157,328	1,755,397	1,446,800	3,202,197
1985	198,000(1)	92,300	184,931	475,231	869,355	187,176	166,190	206,673	1,904,625	1,497,400	3,402,025

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(1) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available

Source: 1967-1980: United States-American Gas Association, Committee on Natural Gas Reserves
1981-1984: United States-Department of Energy
Rest of the World-The Oil & Gas Journal "Worldwide Report" issues
1985: Oil and Gas Journal, "Worldwide Report" issue

Section XIII
Table 2

THE SUPPLY OF UNITED STATES NATURAL GAS
(Millions of cubic feet - 14.72 psia at 60° F.)

Year	Proved Reserves at Start of Year	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(4)	Production During Year(1)	Proved Reserves at Year-end
1947	159,703,813	10,921,187	N.A.	5,559,235	165,025,765
1948	165,025,765	13,823,090	51,202	5,975,001	172,925,056
1949	172,925,056	12,605,615	82,146	6,211,124	179,401,693
1950	179,401,693	11,985,361	52,935	6,855,244	184,584,745
1951	184,584,745	15,965,808	132,030	7,923,673	192,785,910
1952	192,758,910	14,267,606	197,766	8,592,716	198,631,566
1953	198,631,566	20,341,933	513,529(2)	9,188,365	210,298,763
1954	210,298,763	9,547,074	90,408	9,375,314	210,560,931
1955	210,560,931	21,897,616	87,164	10,063,167	222,482,544
1956	222,482,544	24,716,115	133,241	10,848,685	236,483,215
1957	236,483,215	20,008,051	178,761	11,439,890	245,230,137
1958	245,230,137	18,896,724	57,582	11,422,651	252,761,792
1959	252,761,792	20,621,249	160,453	12,373,063	261,170,431
1960	261,170,431	13,893,978	281,273	13,019,356	262,326,326
1961	262,326,326	17,166,421	159,544	13,378,649	266,273,642
1962	266,273,642	19,483,958	159,231	13,637,973	272,278,858
1963	272,278,858	18,164,667	253,733	14,546,025	276,151,233
1964	276,151,233	20,252,139	195,110	15,347,028	281,251,454
1965	281,251,454	21,319,279	150,483	16,252,293	286,468,923
1966	286,468,923	20,220,432	134,523	17,491,073	289,332,805
1967	289,332,805	21,804,333	151,403	18,380,838	292,907,703
1968	292,907,703	13,697,008	118,568	19,373,427	287,349,852
1969	287,349,852	8,375,004	107,169	20,723,190	275,108,835
1970	275,108,835	37,196,359(3)	402,018	21,960,804	290,746,408(3)
1971	290,746,408(3)	9,825,421	310,301	22,076,512	278,805,618(3)
1972	278,805,618(3)	9,634,563	156,563	22,511,898	266,084,846(3)
1973	266,084,846(3)	6,825,049	-354,282	22,605,406	249,950,207(3)
1974	249,950,207(3)	8,679,184	-178,424	21,318,470	237,132,497(3)

N.A. Not Available

(1) Estimated.

(2) All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.

(3) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska, (discovered in 1968).

(4) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

Source: American Gas Association, Committee on Natural Gas reserves

Section XIII
Table 2a

THE SUPPLY OF UNITED STATES NATURAL GAS
(Millions of cubic feet - 14.72 psia at 60° F.)

Year	Proved Reserves at Start of Year(3)	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(4)	Production During Year(1)	Proved Reserves at Year-end(3)
1975	237,132,497	10,483,688	302,561	19,718,570	228,200,176
1976	228,200,176	7,555,468	-187,550	19,542,020	216,026,047
1977	216,026,074	11,851,924	446,930	19,447,050	208,877,878
1978	208,877,878	10,586,144	148,733	19,311,048	200,301,707
1979	200,301,707	14,285,947	239,323	19,910,353	194,916,624
1980	200,997,000	16,723,000	N.A.	18,699,000	199,021,000
1981	199,021,000	21,446,000	N.A.	18,737,000	201,730,000
1982	201,730,000	17,288,000	N.A.	17,506,000	201,512,000
1983	201,512,000	14,523,000	N.A.	15,788,000	200,247,000

N.A. Not Available

(1) Estimated.
(3) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska.
(4) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

Source: 1975-1979-American Gas Association, Committee on Natural Gas reserves
1980-1983-U.S. Department of Energy, Energy Information Administration

Section XIII
Table 3

The Reserves of U.S. Natural Gas Liquids
(Thousands of Barrels)

	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1947	3,163,219	251,538	160,782	3,253,975	20.2
1948	3,253,975	470,557	183,749	3,540,783	19.3
1949	3,540,783	386,776	198,547	3,729,012	18.8
1950	3,729,012	766,062	227,411	4,267,663	18.8
1951	4,267,663	723,991	267,052	4,724,602	17.7
1952	4,724,602	556,838	284,789	4,996,651	17.5
1953	4,996,651	743,969	302,698	5,437,922	18.0
1954	5,437,922	107,350	300,815	5,244,457	17.4
1955	5,244,457	514,508	320,400	5,438,565	17.0
1956	5,438,565	809,820	346,053	5,902,332	17.1
1957	5,902,332	137,392	352,364	5,687,360	16.1
1958	5,687,360	858,206	341,548	6,204,018	18.2
1959	6,204,018	703,444	385,154	6,522,308	16.9
1960	6,522,308	725,130	431,379	6,816,059	15.8
1961	6,816,059	694,686	461,649	7,049,096	15.3
1962	7,049,096	732,549	470,128	7,311,517	15.6
1963	7,311,517	878,120	515,659	7,673,978	14.9
1964	7,673,978	608,744	536,090	7,746,632	14.4
1965	7,746,632	832,312	555,410	8,023,534	14.4
1966	8,023,534	894,116	588,684	8,328,966	14.1
1967	8,328,966	929,758	644,493	8,614,231	13.4
1968	8,614,231	685,659	701,782	8,598,108	12.2
1969	8,598,108	281,028	735,962	8,143,174	11.1
1970	8,143,174	307,579	747,812	7,702,941	10.3
1971	7,702,941	347,720	746,434	7,304,227	9.8
1972	7,304,227	238,273	755,941	6,786,559	9.0
1973	6,786,559	408,979	740,831	6,454,707	8.7
1974	6,454,707	619,841	724,099	6,350,449	8.8
1975	6,350,449	618,504	701,123	6,267,830	8.9
1976	6,267,830	834,766	700,629	6,401,967	9.1
1977	6,401,967	291,171	698,773	5,994,365	8.6
1978	5,994,365	595,666	664,179	5,925,852	8.9
1979	5,925,852	389,805	660,334	5,655,323	8.6
1980(1)	6,615,000	844,000	731,000	6,728,000	9.1
1981	6,728,000	1,081,000	741,000	7,068,000	9.3
1982	7,068,000	874,000	721,000	7,221,000	9.9
1983	7,221,000	1,405,000	725,000	7,901,000	10.9

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(1) Figures beginning with 1980 are from the Department of Energy data, using a different methodology from prior data.

Source: American Gas Association through 1979.
Department of Energy beginning in 1980.

Section XIII
Table 4

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations(1)	Total World
1950	6,282,060	71,692	260,008	6,613,760	0	0	55,420	33,177	6,702,357	N.A.	6,702,357
1951	7,457,359	83,970	201,379	7,742,708	0	0	72,699	52,024	7,867,431	255,268	8,122,669
1952	8,013,457	93,710	223,510	8,330,677	0	0	85,164	61,938	3,477,779	305,390	8,783,169
1953	8,396,916	106,735	255,044	8,758,695	0	149	99,644	100,353	8,958,841	503,559	9,462,400
1954	8,742,546	127,597	273,108	9,143,251	0	299	106,286	131,254	9,381,090	538,340	9,919,430
1955	9,405,351	150,772	356,150	9,912,273	4	456	82,348	189,805	10,184,886	524,883	10,709,769
1956	10,081,923	169,153	368,171	10,619,247	15,552	496	101,762	227,530	10,964,587	656,917	11,621,504
1957	10,680,258	220,007	458,629	11,358,894	25,578	351	114,243	251,798	11,750,864	926,155	12,677,019
1958	11,030,298	337,804	616,117	11,984,219	26,288	4,385	119,716	267,450	12,402,058	1,379,668	13,781,726
1959	12,046,115	417,335	713,974	13,177,424	44,520	14,423	133,309	346,906	13,716,582	1,688,023	15,404,605
1960	12,771,038	522,972	775,931	14,069,941	57,265	5,831	157,846	433,794	14,724,677	2,191,932	16,916,609
1961	13,254,025	655,738	864,075	14,773,838	172,065	20,405	170,671	502,222	15,639,201	2,748,402	18,387,603
1962	13,876,622	946,703	956,436	15,779,761	173,312	31,327	193,565	548,419	16,726,384	3,366,025	20,092,409
1963	14,666,559	1,111,478	702,457	16,480,494	149,155	15,956	135,181	559,969	17,340,755	3,678,193	21,018,948
1964	15,462,143	1,327,664	721,596	17,511,403	162,593	33,198	155,293	608,872	18,471,359	4,397,094	22,868,453
1965	16,039,753	1,442,448	779,949	18,262,150	171,219	67,863	168,306	671,057	19,340,595	5,139,565	24,480,160
1966	17,206,628	1,341,833	828,773	19,377,234	193,147	82,133	198,289	789,916	20,640,719	5,735,512	26,394,231
1967	18,171,325	1,471,725	883,481	20,526,531	229,334	84,968	215,309	1,018,634	22,074,776	6,322,996	28,397,772
1968	19,322,400	1,692,301	1,061,610	22,076,311	388,208	96,460	330,258	1,439,050	24,330,287	7,072,855	31,403,142
1969	20,698,240	1,977,838	1,143,290	23,819,368	441,702	113,802	431,095	2,009,701	26,815,668	7,569,402	34,385,070
1970	21,920,642	2,277,109	1,276,624	25,474,375	454,125	122,242	525,255	2,789,046	29,365,043	8,728,918	38,093,961
1971	22,493,012	2,499,024	1,362,648	26,354,684	697,997	522,631	559,808	3,580,676	31,715,796	9,472,600	41,188,396
1972	22,531,698	2,913,537	1,456,611	26,901,846	905,622	471,835	605,962	4,501,119	33,386,384	10,127,500	43,513,884
1973	22,647,549	3,119,461	1,615,801	27,382,811	1,276,853	585,820	775,942	5,147,986	35,169,412	10,958,376	46,127,788
1974	21,600,522	3,045,506	1,659,071	26,305,099	1,423,416	607,732	880,914	5,837,027	35,054,188	12,117,303	47,171,491

N.A. Not Available

Source: 1950-1967: U.S. Bureau of Mines, Minerals Yearbook, Annual
1968-1974: U.S. Bureau of Mines, World Natural Gas

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World
1975	20,108,661	3,075,693	1,735,060	24,919,414	1,436,210	670,402	938,365	5,966,659	33,931,050	13,276,275	47,207,325
1976	19,952,438	3,067,353	1,722,106	24,741,897	1,492,772	905,792	1,173,878	6,343,593	34,657,932	14,801,281	49,459,213
1977	20,025,463	3,230,672	1,865,734	25,121,869	1,506,982	919,464	1,329,016	6,502,502	35,379,833	14,720,257	50,100,090
1978	19,974,033	3,128,056	2,012,912	25,115,001	1,579,478	1,117,416	1,469,154	6,649,855	35,930,904	15,818,398	51,749,302
1979	20,471,260	3,646,500	2,610,000	26,727,760	1,624,700	1,027,900	1,827,900	6,866,800	38,075,060	19,591,400	57,666,460
1980	20,179,724	2,668,300	3,237,500	26,344,587	1,221,300	884,700	2,558,400	6,668,700	37,677,687	21,069,900	58,747,587
1981	19,955,823	2,623,000	3,227,000	26,027,701	1,542,000	1,947,000	2,765,000	6,906,000	39,187,701	19,210,000	58,397,701
1982	18,519,675	2,546,100	3,071,500	24,137,275	1,799,700	1,168,900	2,176,600	6,142,100	35,424,575	20,258,000	55,682,575
1983	16,822,144	2,414,100	3,340,500	22,576,744	1,633,000	1,143,800	2,187,700	6,383,400	33,924,644	21,383,000	55,307,644

Source: 1975-1978: U.S. Energy Information Administration, World Natural Gas, Annuals
1979-1983: U.S. Energy Information Administration, United States only: Rest of World, Oil and Gas Journal

Section XIII
Table 5

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	Total Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared
1947	4,582,173	18,149	4,426,544	-	$274,709	86,643	96,316	127,807	1,067,938
1948	5,148,020	18,704	4,945,149	-	333,173	79,035	136,406	126,796	810,178
1949	5,419,736	20,054	5,195,484	-	344,034	106,368	172,051	138,515	853,884
1950	6,282,060	25,727	6,026,404	-	408,521	175,260	229,752	175,437	801,044
1951	7,457,359	24,163	7,102,562	-	542,964	209,428	347,690	192,372	793,186
1952	8,013,457	27,456	7,613,478	7,807	623,649	221,909	398,593	203,646	848,608
1953	8,396,916	28,322	7,979,338	9,225	774,966	246,802	404,838	240,445	810,276
1954	8,742,546	28,726	8,402,852	6,847	882,501	330,177	432,283	215,709	723,567
1955	9,405,351	31,029	9,070,343	10,888	978,357	437,251	505,185	246,933	773,639
1956	10,081,923	35,963	9,706,878	10,380	1,083,812	452,762	589,232	212,992	727,004
1957	10,680,258	41,655	10,279,775	37,941	1,201,759	480,981	672,377	205,373	809,148
1958	11,030,298	38,719	10,760,698	135,797	1,317,492	621,091	704,172	283,597	633,412
1959	12,046,115	18,413	11,819,638	133,990	1,556,800	668,743	787,485	223,312	571,048
1960	12,771,038	11,332	12,509,427	155,646	1,789,970	712,658	844,352	274,231	562,877
1961	13,182,029	10,689	13,010,654	217,671	1,996,241	694,258	839,083	233,532	523,533
1962	13,801,244	15,728	13,814,678	399,353	2,145,301	849,695	935,712	284,174	425,629
1963	14,666,559	16,865	14,560,953	430,997	2,328,030	911,741	1,041,802	362,677	383,408
1964	15,462,143	19,497	15,451,979	440,918	2,387,689	880,498	1,099,302	302,781	339,996
1965	16,039,753	26,132	16,033,189	456,394	2,494,542	959,865	1,077,980	318,711	319,143
1966	17,206,628	14,639	17,191,711	479,780	2,702,759	1,141,614	1,210,469	401,203	374,695
1967	18,171,325	81,614	18,172,894	564,226	2,898,741	1,132,534	1,317,363	296,214	489,877
1968	19,322,400	93,745	19,459,939	651,885	3,168,688	1,329,536	1,425,075	325,062	516,508
1969	20,698,240	51,304	20,922,800	726,951	3,455,615	1,379,488	1,498,988	331,587	525,750

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section XIII
Table 5a

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	Total Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared
1970	21,920,642	69,813	22,045,799	820,780	$3,745,680	1,458,607	1,856,767	227,650	489,460
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	1,507,630	1,839,398	338,999	284,561
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	1,757,218	1,892,952	328,002	248,119
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	1,532,820	1,974,324	195,863	248,292
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	1,700,546	1,784,209	288,731	169,381
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	1,759,565	2,103,619	235,065	133,913
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	1,921,017	1,755,690	216,240	131,930
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	1,749,884	2,306,515	41,063	136,807
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	2,157,765	2,278,002	287,201	153,350
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	2,047,000	2,295,034	372,330	167,019
1980	20,179,724	48,731	19,877,293	984,767	32,043,704	1,909,902	1,896,284	639,559	125,451
1981	19,955,823	59,372	19,403,858	903,949	39,551,253	1,886,940	2,179,683	500,501	98,017
1982	18,519,675	51,728	18,001,055	933,336	45,496,765	2,093,644	2,399,355	474,731	93,365
1983	16,822,144	54,638	16,834,914	919,752	43,614,369	2,142,027	1,700,426	642,059	94,962

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(1) Also includes changes in above ground storage and gas unaccounted for.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 6

U.S. IMPORTS OF NATURAL GAS BY SOURCE
(Billion cubic feet)

Year	Canada	Mexico	Algeria(3)	Total Imports	U.S. Natural Gas Consumption
1968	605	47	(2)	652	19,460
1969	680	47	(2)	727	20,923
1970	779(1)	41	3	823	22,046
1971	914(1)	21	3	938	22,677
1972	1,010(1)	8	2	1,020	23,009
1973	1,028(1)	2	3	1,033	22,966
1974	959	(2)	0	959	22,111
1975	948	0	5	953	20,410
1976	954	0	10	964	20,801
1977	997	2	11	1,011	19,521
1978	881	0	84	965	19,627
1979	1,001	0	252	1,253	20,241
1980	797	102	86	985	19,877
1981	762(1)	105	37	904	19,404
1982	783	95	55	933	18,001
1983	712	75	131	918	16,835

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(1) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, 0.7 billion cubic feet in 1973, and 0.6 billion cubic feet in 1981.
(2) Less than one-half unit.
(3) Liquefied natural gas.

Source: U.S. Energy Information Administration, 1968-1977: World Natural Gas Annuals
1978-1981: U.S. Imports and Exports of Natural Gas
1982-1983: Natural Gas Monthly

Section XIII
Table 7

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1975	Nation	1976
1. U.S.S.R.	810,000	1. U.S.S.R	800,000
2. Iran	330,000	2. Iran	329,500
3. United States	237,132	3. United States	228,200
4. Algeria	229,000	4. Algeria	126,000
5. United Arab Emirates (1)	200,000	5. Saudi Arabia	103,000
6. Netherlands	94,800	6. Netherlands	70,000
7. Canada	56,708	7. Canada	56,975
8. Saudi Arabia	55,000	8. United Kingdom	50,000
9. United Kingdom	50,000	9. Nigeria	44,300
10. Nigeria	45,500	10. Venezuela	42,000
11. Venezuela	43,000	11. Australia	32,500
12. Australia	38,000	12. Kuwait	31,800
13. Kuwait	32,000	13. Libya	26,300
14. Iraq	27,500	14. Norway	25,000
15. Libya	26,500	15. People's Republic of China	25,000
16. People's Republic of China	25,000	16. United Arab Emirates (1)	20,000
17. Norway	24,700	17. Pakistan	16,400
18. Brunei-Malaysia	22,000	18. Indonesia	15,000
19. Indonesia	15,000	19. Malaysia	15,000
20. Mexico	15,000	20. Bolivia	10,800
Total Free World	1,700,404	Total Free World	1,413,897
Total World	2,546,404	Total World	2,248,897

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(1) Prior to 1972 figures reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai and Sharjah which formed the United Arab Emirates.

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

Section XIII
Table 7a

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

	Nation	1977		Nation	1978
1.	U.S.S.R.	918,000	1.	U.S.S.R	920,000
2.	Iran	330,000	2.	Iran	500,000
3.	United States	216,026	3.	United States	208,878
4.	Algeria	125,800	4.	Algeria	125,000
5.	Saudi Arabia	86,000	5.	Saudi Arabia	85,000
6.	Netherlands	61,900	6.	Netherlands	60,000
7.	Canada	58,282	7.	Canada	58,000
8.	Nigeria	44,000	8.	Nigeria	43,000
9.	Venezuela	40,700	9.	Venezuela	41,000
10.	Australia	32,300	10.	Qatar	40,000
11.	Kuwait	31,700	11.	Australia	32,000
12.	United Kingdom	30,000	12.	Kuwait	31,500
13.	Qatar	27,500	13.	Mexico	30,000
14.	Iraq	27,000	14.	United Kingdom	29,000
15.	Libya	25,800	15.	Iraq	28,000
16.	People's Republic of China	25,000	16.	Libya	25,700
17.	Indonesia	24,000	17.	People's Republic of China	25,000
18.	Norway	18,500	18.	Indonesia	24,000
19.	Pakistan	15,820	19.	United Arab Emirates	20,000
20.	Malaysia	15,000	20.	Norway	20,000
	Total Free World	1,161,905		Total Free World	1,563,437
	Total World	2,114,905		Total World	2,518,437

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

Section XIII
Table 7b

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1979	Nation	1980
1. U.S.S.R.	910,000	1. U.S.S.R.	900,000
2. Iran	500,000	2. Iran	490,000
3. United States	200,302	3. United States	194,917
4. Algeria	105,000	4. Algeria	132,000
5. Saudi Arabia	93,900	5. Saudi Arabia	93,230
6. Netherlands	62,000	6. Canada	85,500
7. Canada	59,000	7. Qatar	60,000
8. Nigeria	42,000	8. Netherlands	59,500
9. Venezuela	41,000	9. Mexico	59,000
10. Qatar	40,000	10. Venezuela	42,800
11. Mexico	32,000	11. Nigeria	41,400
12. Kuwait	31,300	12. Kuwait	31,000
13. Australia	31,000	13. Australia	31,000
14. Iraq	27,800	14. Iraq	27,500
15. United Kingdom	27,000	15. United Kingdom	25,000
16. People's Republic of China	25,000	16. People's Republic of China	25,000
17. Libya	24,200	17. Libya	24,000
18. Indonesia	24,000	18. Indonesia	24,000
19. Norway	24,000	19. Norway	23,500
20. United Arab Emirates	21,600	20. United Arab Emirates	20,500
Total Free World	1,552,312	Total Free World	1,639,158
Total World	2,497,312	Total World	2,574,158

Source: United States, American Gas Association
Rest of World, Oil and Gas Journal

Section XIII
Table 7c

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

Nation	1981	Nation	1982	Nation	1983
1. U.S.S.R.	920,000	1. U.S.S.R.	1,160,000	1. U.S.S.R.	1,240,000
2. Iran	485,000	2. Iran	484,000	2. Iran	482,600
3. United States	199,021	3. United States	201,730	3. United States	201,512
4. Algeria	131,500	4. Algeria	130,900	4. Saudi Arabia	117,000
5. Saudi Arabia	110,000	5. Saudi Arabia	114,000	5. Algeria	111,250
6. Canada	87,300	6. Canada	89,900	6. Canada	97,000
7. Mexico	64,500	7. Mexico	75,350	7. Mexico	75,850
8. Netherlands	62,000	8. Qatar	60,000	8. Qatar	62,000
9. Qatar	60,000	9. Netherlands	55,700	9. Norway	58,000
10. Norway	42,700	10. Norway	49,370	10. Venezuela	54,079
11. Venezuela	42,000	11. Venezuela	47,000	11. Netherlands	51,920
12. Nigeria	41,000	12. Nigeria	40,500	12. Malaysia	34,000
13. Kuwait	30,800	13. Kuwait	30,500	13. Nigeria	32,400
14. Australia	30,000	14. Indonesia	27,400	14. Kuwait	29,900
15. Iraq	27,450	15. Iraq	27,300	15. Indonesia	29,600
16. United Kingdom	24,800	16. United Kingdom	26,000	16. Iraq	28,800
17. People's Republic of China	24,500	17. People's Republic of China	24,400	17. United Kingdon	25,400
18. Libya	23,800	18. Argentina	23,400	18. Argentina	25,200
19. Indonesia	23,500	19. Libya	23,200	19. Libya	21,500
20. Argentina	22,000	20. Abu Dhabi	19,500	20. Abu Dhabi	19,260
Total Free World	1,692,622	Total Free World	1,720,376	Total Free World	1,747,239
Total World	2,646,522	Total World	2,915,076	Total WORLD	3,031,039

Source: 1981-1983: United States, Department of Energy
Rest of World, Oil and Gas Journal

Section XIII
Table 7d

ESTIMATED NATURAL GAS RESERVES-TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion of cubic feet)

Nation	1984	Nation	1985
1. U.S.S.R.	1,400,000	1. U.S.S.R.	1,450,000
2. Iran	480,000	2. Iran	478,600
3. United States	200,247	3. United States	198,000
4. Saudi Arabia	121,000	4. Qatar	150,000
5. Algeria	110,180	5. Saudi Arabia	123,270
6. Canada	90,500	6. Algeria	109,100
7. Mexico	75,352	7. Canada	92,300
8. Qatar	62,000	8. Norway	89,000
9. Norway	58,800	9. Mexico	77,000
10. Venezuela	54,546	10. Netherlands	68,482
11. Netherlands	50,050	11. Venezuela	55,367
12. Malaysia	48,000	12. Malaysia	50,000
13. Nigeria	34,800	13. Indonesia	40,000
14. Kuwait	31,000	14. Nigeria	35,600
15. China	30,300	15. Kuwait	32,500
16. Indonesia	30,200	16. China	30,900
17. Iraq	29,000	17. Iraq	28,800
18. United Kingdom	25,100	18. United Kingdom	27,800
19. Argentina	24,420	19. Argentina	24,628
20. Libya	21,350	20. Libya	21,200
TOTAL FREE WORLD	1,755,397	TOTAL FREE WORLD	1,904,625
TOTAL WORLD	3,202,197	TOTAL WORLD	3,402,025

Source: 1984: United States, U.S. Department of Energy
Rest of World, Oil and Gas Journal, "Worldwide Report" issue
1985: Oil and Gas Journal, "Worldwide Report" issue

Section XIII
Table 8

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1974(1)(2)	Nation	1975(1)(2)	Nation	1976(1)(2)
1. United States	21,600.5	1. United States	20,108.7	1. United States	19,952.4
2. U.S.S.R.	9,201.3	2. U.S.S.R.	10,205.9	2. U.S.S.R.	11,331.3
3. Canada	3,045.5	3. Netherlands	3,208.4	3. Netherlands	3,542.7
4. Netherlands	2,956.7	4. Canada	3,075.7	4. Canada	3,157.2
5. United Kingdom	1,230.0	5. People's Republic of China	1,400.0	5. Iran	1,699.6
6. People's Republic of China	1,200.0	6. United Kingdom	1,208.2	6. People's Republic of China	1,433.7
7. Romania	1,011.5	7. Romania	953.5	7. United Kingdom	1,202.3
8. Iran	787.4	8. Iran	771.1	8. Romania	854.6
9. West Germany	713.2	9. West Germany	639.4	9. Mexico	790.8
10. Mexico	560.9	10. Mexico	583.9	10. Nigeria	632.6
11. Italy	540.4	11. Italy	514.3	11. Italy	562.1
12. Venezuela	476.0	12. Venezuela	450.3	12. West Germany	544.0
13. Libya	345.2	13. Libya	382.6	13. Libya	439.2
14. East Germany	273.1	14. East Germany	280.0	14. Venezuela	396.0
15. France	269.4	15. Argentina	271.6	15. Argentina	280.2
16. Argentina	255.7	16. France	259.8	16. Algeria	256.9
17. Saudi Arabia	219.0	17. Poland	210.6	17. France	250.7
18. Poland	202.7	18. Algeria	210.0	18. Indonesia	248.6
19. Algeria	198.5	19. Saudi Arabia	200.0	19. Australia	209.3
20. Kuwait	186.9	20. Brunei	186.5	20. Chile	175.8
Total Free World	35,054.2	Total Free World	33,931.1	Total Free World	36,006.5
Total World	47,171.5	Total World	47,207.3	Total World	50,367.1

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(1) Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: 1974-1975: U.S. Bureau of Mines, World Natural Gas, May 27, 1977
1976: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 8a

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1977(1)(2)	Nation	1978(1)(2)	Nation	1979(1)(2)
1. United States	20,337.5	1. United States	19,974.0	1. United States	20,471.3
2. U.S.S.R.	12,395.2	2. U.S.S.R.	13,131.6	2. U.S.S.R.	14,367.1
3. Canada	3,301.4	3. Canada	3,133.1	3. Canada	3,646.5
4. Netherlands	2,932.5	4. People's Republic of China	2,352.2	4. People's Republic of China	2,832.7
5. People's Republic of China	1,787.0	5. Iran	1,746.9	5. Netherlands	2,717.8
6. Iran	1,756.1	6. Netherlands	1,624.5	6. United Kingdom	1,965.7
7. United Kingdom	1,499.9	7. United Kingdom	1,262.4	7. Romania	1,210.5
8. Romania	1,005.5	8. Romania	1,211.6	8. Mexico	974.9
9. West Germany	907.7	9. Mexico	887.5	9. Iran	913.3
10. Mexico	745.3	10. West Germany	643.2	10. West Germany	826.3
11. Nigeria	717.4	11. Nigeria	586.6	11. Indonesia	816.3
12. Libya	488.6	12. Indonesia	565.8	12. Italy	533.6
13. Italy	448.6	13. Italy	540.8	13. Norway	414.9
14. Venezuela	392.8	14. Venezuela	401.4	14. Venezuela	406.0
15. Indonesia	351.9	15. Libya	364.0	15. Nigeria	365.6
16. Algeria	284.5	16. Norway	351.8	16. Chile	306.4
17. France	256.8	17. Algeria	328.7	17. Brunei-Malaysia	302.7
18. Argentina	250.0	18. Brunei-Malaysia	325.7	18. Algeria	301.5
19. Australia	236.7	19. Chile	320.7	19. Australia	254.1
20. Chile	208.9	20. Argentina	254.3	20. Argentina	241.7
Total Free World	35,393.2	Total Free World	35,272.8	Total Free World	38,075.1
Total World	53,883.7	Total World	53,911.1	Total World	57,666.5

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(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 8b

WORLD NATURAL GAS PRODUCTION-TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1980(1)(2)	Nation	1981(1)(2)	Nation	1982(1)(2)
1. United States	20,378.8	1. United States	20,177.7	1. United States	18,519.7
2. U.S.S.R.	15,355.5	2. U.S.S.R.	16,390.0	2. U.S.S.R.	17,685.3
3. People's Republic of China	3,469.0	3. Netherlands	3,054.0	3. Canada	2,546.1
4. Netherlands	2,799.6	4. Canada	2,623.0	4. Netherlands	2,521.7
5. Canada	2,668.3	5. Mexico	1,486.0	5. Mexico	1,549.7
6. United Kingdom	1,500.0	6. Romania	1,440.0	6. United Kingdom	1,276.1
7. Mexico	1,190.5	7. United Kingdom	1,427.0	7. Romania	1,150.0
8. Romania	1,176.4	8. Algeria	1,149.0	8. Norway	861.9
9. Indonesia	1,028.4	9. Indonesia	1,075.0	9. Algeria	828.5
10. West Germany	738.6	10. Norway	923.0	10. Saudi Arabia	591.8
11. Norway	705.2	11. Libya	674.0	11. West Germany	585.3
12. Pakistan	600.0	12. West Germany	636.0	12. Indonesia	568.9
13. Italy	524.6	13. Venezuela	602.0	13. Venezuela	527.2
14. Venezuela	518.0	14. Pakistan	600.0	14. Italy	503.6
15. Algeria	517.0	15. Italy	500.0	15. Australia	415.8
16. Saudi Arabia	310.2	16. People's Republic of China	459.0	16. Argentina	386.2
17. Argentina	296.9	17. Saudi Arabia	435.0	17. Iran	381.5
18. Iran	292.0	18. Australia	377.0	18. China	363.7
19. Kuwait	291.3	19. Kuwait	340.0	19. France	332.6
20. Brunei	282.0	20. Argentina	330.0	20. Pakistan	315.3
Total Free World	37,677.7	Total Free World	39,187.7	Total Free World	35,424.6
Total World	58,747.7	Total World	58,397.7	Total World	55,682.6

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(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.
(2) United States is reported marketed production; all others may include some gross production

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

WORLD NATURAL GAS PRODUCTION - TWENTY LEADING NATIONS
(Billion cubic feet)

Nation	1983(1)(2)
1. U.S.S.R.	18,903.0
2. United States	16,822.1
3. Netherlands	2,678.9
4. Canada	2,414.1
5. Mexico	1,479.5
6. United Kingdom	1,395.3
7. Romania	1,200.0
8. Norway	861.4
9. Algeria	707.0
10. West Germany	605.2
11. Venezuela	559.2
12. Argentina	549.6
13. Iran	500.2
14. Indonesia	481.8
15. Italy	450.1
16. Australia	423.5
17. Saudi Arabia	381.5
18. China	371.0
19. Pakistan	341.4
20. Brunei	316.3
Total Free World	33,924.6
Total World	55,307.6

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal

Section XIII
Table 9

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	-	-	-	2	1	4	41	87	282	42	190	323
Alaska	-	-	-	-	-	-	-	-	-	—	—	50
Arizona	-	-	-	-	-	-	-	-	15	21	—	—
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464
Florida	8	27	39	8	10	15	34	35	36	35	34	35
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587
Maryland	-	-	-	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143
Missouri	38	27	24	21	14	16	15	16	15	12	12	-
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989
Nebraska	-	-	-	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,590	3,637	4,098	2,869	2,808
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869
South Dakota	6	2	1	-	7	6	5	7	-	-	-	-
Tennessee	80	127	83	132	132	107	89	89	39	45	38	54
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5,156,215	5,178,073
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682
Total	4,582,173	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,396,916	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section XIII
Table 9a

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	172	57	56	128	177	165	203	252	248	230	180	627
Alaska	133	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576
Arizona	-	-	-	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101
Arkansas	40,674	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351
California	485,655	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689	649,117
Colorado	99,899	107,404	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804
Florida	34	30	29	29	35	40	107	212	123	108	50	—
Illinois	13,739	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850
Indiana	484	342	382	284	286	199	239	215	198	234	171	153
Kansas	604,410	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955
Kentucky	73,504	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892
Louisiana	2,670,271	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276
Maryland	4,373	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978	813
Michigan	18,916	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851
Mississippi	162,095	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031
Missouri	-	75	90	92	100	107	84	-	121	14	126	87
Montana	30,743	33,418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705
Nebraska	13,128	15,258	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991
New Mexico	739,660	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980
New York	2,915	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358
North Dakota	17,915	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889
Ohio	34,664	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113
Oklahoma	811,508	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943
Pennsylvania	99,366	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	52	63	71	75	90	77	85	-	58	48	57	64
Texas	5,718,993	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716
Utah	38,921	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781
Virginia	2,280	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805
West Virginia	204,633	208,757	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452
Wyoming	156,978	181,610	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517	338,520
Total	12,046,115	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240	21,920,642

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

Section XIII
Table 9b

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	355	3,644	11,271	27,865	37,814	41,427	57,227	85,599	85,815	105,527	119,334	75,003
Alaska	121,618	125,596	131,007	128,935	160,270	166,072	187,889	203,088	220,754	230,588	242,564	264,364
Arizona	868	442	125	224	208	262	240	286	247	214	187	99
Arkansas	172,154	166,522	157,529	123,975	116,237	109,533	104,096	106,792	109,452	111,808	92,986	124,611
California	612,629	487,278	449,369	365,354	318,308	354,334	311,462	311,084	248,206	309,783	380,730	383,977
Colorado	108,537	116,949	137,725	144,629	171,629	183,972	188,792	183,693	191,239	190,814	199,146	209,892
Florida	903	15,521	33,857	38,137	44,383	43,165	48,171	51,595	50,190	45,744	35,938	22,515
Illinois	498	1,194	1,638	1,436	1,440	1,556	1,003	1,159	1,585	1,574	1,295	1,162
Indiana	537	355	276	176	346	192	183	163	350	463	330	233
Kansas	885,144	889,268	893,118	886,782	843,625	829,170	781,289	854,484	797,762	735,035	640,114	429,597
Kentucky	72,723	63,648	62,396	71,876	60,511	66,137	60,902	70,044	59,520	57,180	61,312	51,924
Louisiana	8,081,907	7,972,678	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217	6,939,924	6,780,184	6,171,627
Maryland	214	244	298	133	93	75	82	88	28	68	56	36
Michigan	25,662	34,221	44,579	69,133	102,113	119,262	129,954	148,047	159,731	158,302	152,593	153,051
Mississippi	118,805	103,989	99,706	78,787	74,345	70,762	82,995	106,579	144,077	185,469	211,371	167,231
Missouri	22	9	33	33	30	29	20	-	-	-	-	-
Montana	32,720	33,474	56,175	54,873	40,734	42,563	46,819	46,522	53,888	51,867	56,565	56,517
Nebraska	3,496	3,478	3,836	2,538	2,565	2,511	2,789	2,882	3,208	2,550	2,519	2,280
New Mexico	1,167,577	1,216,061	1,218,749	1,244,779	1,217,430	1,,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,113	991,178
New York	2,202	3,679	4,539	4,990	7,628	9,235	10,682	13,900	15,500	15,643	16,074	15,877
North Dakota	33,864	32,472	27,703	31,206	24,786	31,470	29,173	30,499	18,468	42,346	42,573	53,818
Ohio	79,903	89,995	93,610	92,055	84,960	88,891	99,327	114,098	123,481	138,856	141,134	138,391
Oklahoma	1,684,260	1,806,887	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412
Oregon	-	-	-	-	-	-	-	-	2	5	5	3
Pennsylvania	76,451	73,958	78,514	82,637	84,676	89,386	91,717	97,763	96,313	97,439	122,454	121,111
South Dakota	-	-	-	-	-	-	-	-	914	1,193	1,155	2,311
Tennessee	89	25	20	17	27	47	263	468	941	1,241	1,719	2,976
Texas	8,550,705	8,657,840	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623	7,251,879	7,050,207	6,468,817
Utah	42,418	39,474	42,715	50,522	55,354	57,416	60,696	58,416	58,605	87,766	91,191	94,255
Virginia	2,619	2,787	5,101	7,096	6,723	6,937	8,220	8,492	8,544	7,812	8,903	6,880
West Virginia	234,027	214,951	208,676	202,306	154,484	153,322	152,767	148,564	150,505	156,551	161,251	150,850
Wyoming	380,105	375,059	357,731	326,657	316,123	328,768	330,180	357,267	414,416	409,541	410,499	424,657
Total	22,493,012	22,531,698	22,647,549	21,600,522	20,108,661	19,952,438	20,025,463	19,974,033	20,471,260	20,378,787	20,177,701	18,519,675

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XII
Table 9c

U.S. MARKETED PRODUCTION(1) OF NATURAL GAS BY STATE
(Million cubic feet)

State	1983
Alabama	90,801
Alaska	276,691
Arizona	132
Arkansas	127,561
California	415,324
Colorado	163,545
Florida	21,056
Illinois	1,030
Indiana	135
Kansas	434.736
Kentucky	46,720
Louisiana	5,332,113
Maryland	31
Michigan	138,910
Mississippi	151,204
Missouri	0
Montana	51,967
Nebraska	2,091
New Mexico	895,279
New York	17,836
North Dakota	69,319
Ohio	151,300
Oklahoma	1,730,061
Oregon	3
Pennsylvania	118,372
South Dakota	1,846
Tennessee	3,950
Texas	5,938,561
Utah	63,158
Virginia	4,346
West Virginia	130,178
Wyoming	443,988
Total	16,822,144

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(1) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	50,713	61,113	71,072	92,466	111,030	125,874	136,825	139,551	151,325	160,261	165,772	172,406
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	27,768	34,983	44,489	53,419	62,046	63,111	71,210	75,568	88,983	105,860	105,536	105,034
Arkansas	102,779	112,675	113,922	135,609	155,524	165,603	176,489	192,378	197,374	196,297	201,306	202,361
California	548,382	617,615	619,323	683,924	787,848	792,520	862,243	933,934	1,020,395	1,021,002	1,091,236	1,078,855
Colorado	49,027	60,585	73,664	88,692	102,769	101,835	115,922	126,048	143,018	145,640	176,936	165,099
Connecticut	-	-	-	-	-	1,039	5,833	11,415	14,187	18,109	20,328	27,884
Delaware	-	-	708	1,022	1,679	2,276	1,972	2,980	4,280	5,824	6,014	8,301
Dist. of Col.	8,474	9,361	9,305	10,694	11,904	12,782	13,134	14,261	15,042	15,833	15,701	17,594
Florida	7,891	8,973	10,185	12,348	13,044	16,001	19,577	23,159	26,402	35,322	38,871	44,174
Georgia	41,368	47,552	58,824	67,894	94,596	108,329	122,742	132,069	133,044	148,567	154,778	164,114
Idaho	-	-	-	-	-	-	-	-	-	765	10,733	15,903
Illinois	132,153	168,796	202,546	235,211	250,812	344,705	350,980	391,408	398,718	417,443	422,840	452,006
Indiana	42,528	50,774	55,263	58,620	69,177	96,124	103,444	116,308	126,897	140,135	145,179	154,583
Iowa	40,948	50,350	57,620	66,233	79,640	94,951	106,755	119,876	138,661	147,892	154,964	159,982
Kansas	191,952	199,893	206,593	242,603	278,892	279,632	283,604	293,784	309,028	324,335	343,833	362,280
Kentucky	36,938	41,357	45,504	61,323	74,386	87,006	104,781	110,039	117,496	126,580	132,436	136,990
Louisiana	375,206	426,837	450,712	475,500	549,305	599,312	594,656	636,704	774,320	839,393	840,331	931,203
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maryland	3,402	4,280	4,821	13,813	22,286	26,468	29,470	35,010	39,889	47,553	51,177	57,328
Massachusetts	-	-	-	-	1,783	11,386	17,683	35,486	43,932	50,691	56,626	67,602
Michigan	80,571	75,978	84,315	127,180	154,283	163,991	178,307	188,922	207,005	243,465	272,353	298,104
Minnesota	43,198	52,376	59,040	67,861	84,205	97,591	104,508	115,140	123,734	136,831	147,732	149,042
Mississippi	52,461	65,245	60,987	76,918	97,786	119,638	118,617	136,797	138,186	145,353	148,279	157,169
Missouri	78,101	90,883	99,667	140,384	156,922	168,992	173,674	188,349	199,272	219,424	223,528	241,239
Montana	30,919	32,919	34,361	38,544	37,481	40,771	39,934	40,624	47,491	47,690	52,200	51,825
Nebraska	39,699	47,647	51,911	61,742	72,386	78,544	83,384	93,189	102,177	109,265	116,326	114,661
Nevada	-	-	-	-	-	-	-	982	2,484	6,676	8,666	8,826
New Hampshire	-	-	-	-	3	316	857	1,065	1,206	1,445	1,787	2,421
New Jersey	-	-	3,172	3,209	30,887	40,409	58,685	65,718	74,601	90,092	100,483	119,946
New Mexico	102,766	110,132	127,423	147,509	174,808	194,748	200,039	177,221	215,281	229,821	243,800	251,518
New York	41,572	44,200	51,064	65,157	144,920	180,747	197,878	225,844	243,513	268,408	299,153	343,326
North Carolina	-	-	-	-	1,631	2,945	6,172	9,436	12,644	16,579	19,533	23,519
North Dakota	2,608	2,712	2,686	3,279	3,408	3,342	3,559	4,820	9,320	10,428	13,753	15,639
Ohio	221,571	236,137	246,212	324,594	375,820	393,250	420,809	442,523	500,865	561,557	583,753	618,022
Oklahoma	254,522	277,955	258,579	286,793	307,887	319,908	333,972	327,936	334,057	358,930	387,277	342,080
Oregon	-	-	-	-	-	-	-	-	-	4,473	18,227	22,752
Pennsylvania	175,906	191,631	209,749	263,199	311,937	324,187	335,457	353,185	390,280	431,325	445,813	465,732
Rhode Island	-	-	-	-	-	-	670	4,423	5,375	6,242	8,139	9,940
South Carolina	-	-	-	-	853	2,896	8,772	16,573	23,043	44,467	39,741	39,678
South Dakota	8,016	8,540	8,212	10,001	11,447	11,701	13,688	15,564	16,107	18,002	18,251	19,535
Tennessee	33,986	37,766	41,609	67,813	88,078	99,817	106,130	114,869	118,052	126,815	130,601	142,860
Texas	1,444,422	1,605,955	1,658,379	1,824,553	2,130,377	2,175,100	2,194,172	2,198,175	2,236,540	2,323,847	2,455,528	2,555,541
Utah	20,919	21,627	24,338	26,368	29,014	30,929	34,592	41,073	48,903	54,669	57,004	55,706
Vermont	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Virginia	3,055	3,877	4,324	7,639	14,853	18,630	27,716	35,604	38,884	43,362	48,527	56,052
Washington	-	-	-	-	-	-	-	-	-	5,224	40,108	53,063
West Virginia	106,105	112,702	111,802	132,273	139,608	146,153	148,017	138,846	158,006	161,246	159,520	164,347
Wisconsin	267	323	1,696	15,380	28,382	33,632	36,339	39,287	40,621	48,190	59,592	67,596
Wyoming	26,351	31,400	31,407	36,637	38,865	36,287	36,070	36,709	39,705	45,552	45,504	46,810
U.S. Total	4,426,544	4,945,149	5,195,484	6,026,404	7,102,562	7,613,478	7,979,338	8,402,852	9,070,343	9,706,878	10,279,775	10,760,648

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(1) Included with New Hampshire.

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	178,595	184,118	184,909	194,369	205,763	222,047	229,152	233,098	254,176	287,212	301,128	298,722
Alaska	133	229	557	2,137	4,214	5,781	6,922	10,784	11,889	17,548	42,914	63,990
Arizona	112,722	135,494	153,674	157,892	157,494	162,570	154,489	162,320	158,766	176,547	195,476	192,996
Arkansas	218,528	216,516	209,420	224,744	251,129	273,671	281,825	295,078	298,959	325,236	353,465	385,186
California	1,180,331	1,311,253	1,405,882	1,476,322	1,554,126	1,737,341	1,757,292	1,884,878	1,945,935	2,078,719	2,078,868	2,156,367
Colorado	196,057	207,464	212,611	204,940	207,663	236,325	236,745	233,896	235,634	261,366	276,495	285,733
Connecticut	25,875	28,453	30,361	32,227	34,809	37,502	40,822	47,695	49,780	53,202	57,485	60,574
Delaware	9,459	9,035	9,380	14,492	16,378	17,091	17,969	19,045	21,063	24,059	25,863	26,421
Dist. of Col.	17,123	18,142	18,518	19,338	19,359	20,633	21,210	(2)	(2)	(2)	(2)	(2)
Florida	91,490	137,875	143,656	157,735	177,496	185,249	188,389	212,278	225,531	275,534	313,608	338,645
Georgia	180,342	182,087	179,957	192,638	187,600	206,691	211,321	233,291	254,334	283,115	311,543	332,526
Idaho	19,641	22,006	23,969	25,806	26,635	30,825	33,889	36,104	34,283	39,479	41,436	46,570
Illinois	518,111	536,549	574,346	620,309	658,432	731,921	772,092	854,149	962,078	1,008,061	1,098,817	1,188,043
Indiana	171,158	212,851	239,932	272,309	297,897	333,718	357,882	399,905	434,632	454,013	530,981	545,368
Iowa	182,827	187,138	204,663	213,552	219,005	243,634	247,513	239,478	272,850	297,498	318,341	348,662
Kansas	380,241	372,302	364,957	380,055	387,880	433,429	464,337	507,704	481,443	525,592	583,040	614,537
Kentucky	147,993	159,710	161,912	168,138	175,928	185,780	182,828	160,392	203,964	205,380	243,461	254,622
Louisiana	893,369	947,938	1,036,887	1,007,041	1,070,471	1,139,186	1,155,260	1,258,776	1,509,553	1,661,782	1,942,072	2,034,049
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Maryland	60,674	64,923	68,390	76,551	81,774	86,813	93,957	117,208	139,853	149,125	168,944	182,135
Massachusetts	72,994	77,836	81,768	89,015	98,447	106,699	114,227	116,198	128,217	132,325	136,988	147,307
Michigan	332,756	368,531	407,732	443,677	463,667	500,628	558,240	619,863	689,446	703,782	779,278	811,454
Minnesota	161,390	179,827	192,584	214,130	219,047	236,976	248,741	264,488	283,086	311,898	325,687	342,322
Mississippi	183,158	188,864	190,930	199,733	227,184	252,023	249,845	286,390	283,287	312,862	327,499	361,652
Missouri	255,095	261,372	274,487	289,482	303,075	325,194	341,144	351,768	360,703	365,546	398,697	429,526
Montana	52,183	54,569	57,781	63,298	67,337	67,652	70,895	73,829	65,782	63,642	78,988	90,823
Nebraska	132,651	139,028	143,169	146,043	149,014	164,224	168,032	198,592	189,831	204,139	210,631	222,890
Nevada	10,450	12,447	15,864	17,528	19,292	23,928	27,679	34,218	35,035	37,029	44,140	52,528
New Hampshire	2,480	2,852	3,018	3,315	3,596	3,813	4,084	5,567	6,578	6,630	9,196	10,691
New Jersey	132,984	139,258	153,806	174,210	188,249	200,109	209,757	227,271	251,482	268,495	304,835	322,853
New Mexico	272,922	266,409	288,455	292,495	275,969	257,173	263,798	261,918	301,739	309,409	302,389	322,750
New York	379,928	419,460	435,417	474,384	506,942	513,828	544,414	631,808	589,120	639,845	683,688	710,885
North Carolina	32,685	45,442	50,523	56,373	62,296	68,533	75,745	86,753	97,981	114,809	136,651	151,227
North Dakota	16,981	17,274	19,625	22,196	23,765	26,232	30,318	40,836	37,008	38,481	37,389	37,207
Ohio	670,618	698,569	719,674	756,398	797,318	824,111	879,639	944,767	962,821	987,841	1,031,963	1,052,933
Oklahoma	379,178	383,042	378,096	485,726	588,245	598,631	524,404	490,032	500,330	552,189	603,461	656,095
Oregon	27,498	30,861	33,827	37,865	43,350	53,984	56,065	65,093	69,877	79,226	87,854	95,284
Pennsylvania	502,066	520,788	529,716	550,080	585,426	607,277	629,485	677,111	678,599	718,025	766,034	772,467
Rhode Island	11,011	11,839	12,780	13,794	14,725	15,465	16,349	16,684	18,493	20,704	22,555	25,093
South Carolina	54,363	58,532	60,928	70,645	75,099	78,716	86,865	96,437	100,539	127,514	140,826	159,830
South Dakota	23,584	24,533	25,820	27,413	25,159	27,639	26,974	28,256	27,735	28,815	33,826	36,319
Tennessee	149,462	155,623	160,667	167,737	169,418	181,476	201,499	226,025	232,212	234,288	247,857	256,148
Texas	2,865,595	2,981,167	3,030,914	3,209,968	3,313,837	3,377,093	3,482,821	3,709,715	3,918,930	4,153,513	4,324,701	4,559,373
Utah	61,401	75,650	81,879	92,890	103,628	119,625	114,601	106,474	107,685	113,132	123,291	123,430
Vermont	(1)	(1)	(1)	(1)	(1)	-	-	(1)	(1)	(1)	(1)	(1)
Virginia	59,842	66,181	70,579	77,254	83,011	89,072	95,700	121,702	115,887	121,928	128,748	136,523
Washington	58,650	64,934	70,343	81,431	86,834	105,789	108,108	116,879	127,230	139,421	144,521	149,992
West Virginia	191,548	179,969	192,221	188,602	190,264	182,515	179,084	183,109	165,228	189,027	178,280	192,340
Wisconsin	82,377	90,620	113,679	136,516	152,354	170,202	200,484	224,675	248,033	271,765	316,279	337,822
Wyoming	59,119	59,635	61,451	67,336	69,879	67,559	70,298	79,174	85,277	90,191	112,611	122,859
U.S. Total	11,819,638	12,509,427	13,081,714	13,890,129	14,640,480	15,536,373	16,033,189	17,191,711	18,172,894	19,459,939	20,922,800	22,045,799

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(1) Included with New Hampshire.
(2) Included with Maryland.

Source: U.S. Bureau of Mines, Natural Gas Annuals
U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10b

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	286,254	278,710	272,267	275,262	264,782	226,640	241,237	237,258	283,435	269,240
Alaska	67,805	75,407	64,059	63,971	85,995	91,350	116,278	145,025	157,236	153,345
Arizona	213,313	227,909	214,323	192,446	156,222	171,275	167,092	175,041	172,738	165,850
Arkansas	336,207	317,572	328,921	291,345	259,119	249,764	229,558	220,699	250,747	273,720
California	2,176,849	2,209,699	2,063,125	1,851,614	1,848,070	1,770,736	1,772,041	1,563,172	1,810,381	1,807,731
Colorado	293,521	313,817	328,681	319,266	317,392	314,228	282,215	267,838	292,272	256,363
Connecticut	61,434	64,008	62,609	66,343	64,011	65,855	64,068	65,191	67,957	72,583
Delaware	26,452	24,088	22,949	20,365	18,603	19,182	15,787	20,626	24,981	29,797
Dist. of Col.	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	27,868
Florida	336,901	301,121	314,384	292,920	289,265	302,882	302,344	318,344	344,177	316,588
Georgia	342,579	331,143	348,089	330,339	326,559	261,320	264,665	278,272	312,299	315,201
Idaho	50,096	56,630	56,045	53,057	60,451	47,156	45,537	44,210	54,237	49,047
Illinois	1,242,797	1,220,635	1,163,800	1,163,215	1,107,900	1,187,712	1,167,099	1,174,934	1,142,732	1,089,720
Indiana	566,996	576,948	542,300	531,872	477,341	425,221	398,268	440,955	504,185	489,254
Iowa	344,639	344,516	364,640	367,595	345,798	311,425	280,246	238,229	291,521	269,581
Kansas	646,730	668,847	648,369	630,429	541,490	556,172	506,910	519,346	584,236	488,338
Kentucky	250,493	261,271	250,913	233,560	212,993	251,198	219,521	212,913	218,689	202,284
Louisiana	2,078,996	2,137,729	2,216,692	2,202,693	1,978,129	2,216,289	2,190,848	2,249,172	1,978,382	1,794,007
Maine	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2,268
Maryland	188,371	204,922	201,961	199,331	165,932	176,272	158,838	161,695	201,584	160,244
Massachusetts	156,451	160,280	155,547	155,268	153,967	156,247	160,343	160,503	156,459	182,587
Michigan	852,575	866,682	921,932	937,964	987,063	894,700	741,295	789,594	875,726	865,137
Minnesota	351,442	351,408	360,811	351,644	331,186	320,156	293,381	313,229	334,202	285,846
Mississippi	379,538	379,044	314,870	276,878	230,620	199,642	197,689	203,719	254,366	263,530
Missouri	429,105	425,215	426,807	409,884	369,620	380,258	366,970	358,905	347,257	318,451
Montana	89,021	85,161	91,148	80,766	80,351	75,132	70,956	72,649	69,805	60,724
Nebraska	224,273	225,101	230,106	223,267	219,147	198,893	188,804	163,051	170,013	163,079
Nevada	66,511	69,522	73,072	63,438	61,251	66,797	71,052	64,506	84,433	58,454
New Hampshire	12,088	13,267	13,881	14,697	13,534	13,545	13,609	14,039	14,881	9,474
New Jersey	326,768	321,288	301,566	275,050	244,102	321,535	247,120	228,843	260,579	339,825
New Mexico	323,178	342,150	312,593	312,422	296,369	340,754	229,813	213,698	211,182	221,793
New York	716,550	692,730	682,547	627,493	576,883	595,933	561,696	569,702	623,891	737,443
North Carolina	160,567	163,897	160,871	140,217	114,822	101,175	72,527	81,989	130,884	153,316
North Dakota	37,169	39,672	35,397	38,030	39,230	43,598	37,650	39,067	29,236	22,848
Ohio	1,087,126	1,147,804	1,104,156	1,086,651	956,876	1,005,927	847,497	929,593	898,029	896,983
Oklahoma	667,496	686,133	673,385	722,870	728,827	812,197	766,986	770,249	824,980	722,318
Oregon	100,897	110,360	107,961	98,051	109,898	92,500	72,521	86,140	93,707	78,703
Pennsylvania	802,168	829,031	783,368	715,623	653,810	713,579	668,337	673,770	740,818	775,715
Rhode Island	25,662	22,494	20,559	23,781	23,129	20,697	25,631	23,042	27,219	27,630
South Carolina	156,263	144,120	153,147	131,991	122,949	148,989	138,585	117,573	119,319	142,228
South Dakota	31,832	34,077	31,221	32,076	32,534	39,207	36,097	35,423	25,724	24,078
Tennessee	265,011	277,275	293,620	260,171	217,328	212,326	202,135	184,048	226,477	229,661
Texas	4,813,016	4,882,741	5,097,521	4,912,481	4,379,948	4,403,942	4,143,023	4,211,432	4,001,355	4,091,099
Utah	125,225	127,475	126,595	124,973	127,819	150,237	106,315	118,513	126,047	115,092
Vermont	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	3,991
Virginia	144,014	155,658	152,848	143,650	121,320	123,509	118,020	134,144	134,088	158,479
Washington	156,663	170,448	197,861	182,723	164,334	148,781	142,657	127,280	158,515	128,770
West Virginia	189,319	208,552	195,744	191,975	167,693	159,007	144,535	151,839	148,538	143,047
Wisconsin	348,132	320,826	367,961	381,148	364,801	315,154	349,160	370,726	367,517	351,857
Wyoming	128,088	142,062	124,692	109,818	100,412	101,488	83,623	87,292	93,797	68,975
U.S. Total	22,676,581	23,009,445	22,965,914	22,110,623	20,409,875	20,800,582	19,520,581	19,627,478	20,240,761	19,877,293 (3)

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(1) Included with New Hampshire.
(2) Included with Maryland.
(3) Total includes 3,131 MMcf from Hawaii in 1980.
(4) Total may not add due to independent rounding.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10c

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1981(1)	1982	1983
Alabama	271,280	240,957	221,583
Alaska	121,727	237,881	239,200
Arizona	182,533	135,031	115,233
Arkansas	264,787	226,941	206,966
California	1,858,178	1,682,718	1,535,031
Colorado	211,780	224,991	213,812
Connecticut	76,829	78,246	74,427
Delaware	30,643	27,833	34,884
Dist. of Col.	29,023	29,280	29,340
Florida	337,557	324,807	306,307
Georgia	316,613	294,651	295,531
Hawaii	2,899	2,804	2,669
Idaho	44,960	39,971	35,179
Illinois	1,061,957	994,179	938,340
Indiana	496,349	467,842	426,770
Iowa	253,231	237,089	220,517
Kansas	428,130	400,920	346,204
Kentucky	199,445	188,536	174,306
Louisiana	1,781,716	1,556,052	1,412,983
Maine	2,326	2,691	2,424
Maryland	175,289	157,990	145,628
Massachusetts	184,575	195,107	191,815
Michigan	800,873	748,141	696,455
Minnesota	266,282	262,039	240,777
Mississippi	242,987	269,131	237,859
Missouri	283,514	279,449	258,560
Montana	52,452	52,208	46,249
Nebraska	138,322	138,238	129,920
Nevada	73,182	46,627	41,926
New Hampshire	10,220	10,078	9,655
New Jersey	390,121	375,660	405,387
New Mexico	196,212	204,163	178,698
New York	760,463	775,268	720,398
North Carolina	152,496	142,129	136,579
North Dakota	34,445	28,370	26,126
Ohio	870,341	813,519	747,268
Oklahoma	670,971	676,762	628,950
Oregon	75,562	70,824	67,045
Pennsylvania	784,691	694,639	643,952
Rhode Island	29,202	27,874	29,044
South Carolina	141,924	98,100	101,632
South Dakota	22,056	25,089	23,326
Tennessee	223,529	207,161	194,610
Texas	3,926,687	3,394,404	3,241,515
Utah	102,239	117,706	110,185
Vermont	4,383	4,370	4,359
Virginia	151,737	150,964	142,944
Washington	124,942	108,653	107,193
West Virginia	148,527	130,029	115,813
Wisconsin	324,611	312,007	299,099
Wyoming	69,056	90,923	80,871
U.S. Total	19,403,858	18,001,055	16,834,914

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(1) Total may not add due to independent rounding.

Source: U.S. Energy Information Administration, Natural Gas Annuals

BASIC PETROLEUM DATA BOOK

SECTION XIV. OPEC

Table 1. OPEC Crude Oil Reserves
Table 2 OPEC Crude Oil Production
Table 3. U.S. Total Petroleum Imports From OPEC Nations
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Section XIV
Table 1

OPEC CRUDE OIL RESERVES
ANNUALLY AS OF JANUARY 1
(Millions of Barrels)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC
1960	50,000	62,000	6,500	35,000	25,000	18,000	-	-	- -	-	-	-	-	-	196,500
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	-	-	-	-	-	-	-	201,000
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	-	-	-	-	-	214,300
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	-	-	-	-	-	220,000
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000		-	-	-	-	232,950
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	-	-	-	-	-	238,500
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	-	-	-	-	-	239,650
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	-	-	-	-	278,900
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	-	-	-	-	299,450
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	-	-	-	326,225
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000(10)	-	-	-	391,750
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000	9,300	-	-	431,900
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	-	-	425,251
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,879
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19,500	1,700	2,125	440,395
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,600	29,411	8,440	17,400	1,100	500	435,591
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355
1982	164,600	64,480	6,500	57,000	29,700	20,300	3,434	22,600	9,800	32,176	8,080	16,500	850	480	436,500
1983	162,400	64,230	5,840	55,308	41,000	21,500	3,425	21,500	9,550	32,354	9,440	16,750	1,400	460	445,157
1984	166,000	63,900	5,695	51,000	43,000	24,850	3,330	21,370	9,100	32,240	9,220	16,550	1,675	490	448,320
1985	169,000	90,000	5,420	48,500	44,500	25,845	3,350	21,100	8,650	32,390	9,000	16,650	1,400	510	476,215

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(1) Original member 1960.
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(3) Joined in 1961.
(4) Joined in 1962.
(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(6) Joined in 1969.
(7) Joined in 1971.
(8) Joined in 1973.
(9) Joined as an associate member in 1973 and became a full member in 1975.
(10) Government estimate

SOURCE: Oil and Gas Journal, "Worldwide Report" issue

Section XIV
Table 2

OPEC CRUDE OIL PRODUCTION
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC
1960	1,247	1,624	136	1,054	967	2,846	-	-	-	-	-	-	-	-	7,874
1961	1,393	1,644	179	1,183	1,002	2,920	176	-	-	-	-	-	-	-	8,497
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	-	-	-	-	-	9,954
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	-	-	-	-	-	10,865
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	-	-	-	-	-	12,082
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	-	-	-	-	-	13,177
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	-	-	-	-	-	14,217
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	-	-	-	-	15,631
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	-	-	-	-	17,660
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	-	-	-	20,341
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	-	-	-	22,134
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	-	-	25,092
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	-	-	26,711
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371
1979	9,251	2,213	568	3,168	3,477	2,356	508	2,092	1,591	1,831	1,137	2,302	214	203	30,911
1980	9,631	1,389	544	1,662	2,514	2,165	471	1,830	1,576	1,702	1,020	2,058	204	175	26,941
1981	9,625	947	370	1,381	993	2,108	405	1,137	1,604	1,500	803	1,445	211	151	22,680
1982	6,327	663	317	2,282	972	1,893	328	1,183	1,314	1,248	701	1,298	211	154	18,891
1983	4,867	881	390	2,492	922	1,781	295	1,076	1,385	1,119	699	1,241	236	157	17,541
1984	4,444	912	410	2,187	1,203	1,813	399	1,073	1,466	1,097	638	1,393	253	152	17,440

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(1) Original member 1960.

(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.

(3) Joined in 1961.

(4) Joined in 1962.

(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.

(6) Joined in 1969.

(7) Joined in 1971.

(8) Joined in 1973.

(9) Joined as an associate member in 1973 and became a full member in 1975.

Source: U.S. Energy Information Administration
1979-1984: CIA, International Energy Statistical Review

U.S. TOTAL PETROLEUM IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	Total U.S. Petroleum Imports
1960	79	146	45	36	17	832	-	-	-	8	-	-	-	-	1,155	1,815
1961	69	130	53	60	25	800	36	-	-	-	-	-	-	-	1,173	1,917
1962	73	120	43	49	2	907	27	19	67	-	-	-	-	-	1,307	2,082
1963	86	89	44	62	1	899	17	19	59	-	-	-	-	-	1,276	2,123
1964	106	69	48	66	-	931	20	39	63	-	-	-	-	-	1,342	2,258
1965	144	60	27	79	16	994	13	41	61	-	-	-	-	-	1,435	2,468
1966	135	31	19	89	26	1,021	1	69	50	-	-	-	-	-	1,441	2,573
1967	86	23	11	71	5	935	-	42	62	5	-	-	-	-	1,240	2,537
1968	60	48	29	61	-	888	-	114	73	15	-	-	-	-	1,288	2,840
1969	42	39	43	46	-	876	1	135	89	14	2	-	-	-	1,287	3,166
1970	42	36	-	38	-	989	-	47	70	63	8	-	-	-	1,293	3,419
1971	127	36	-	112	11	1,019	-	57	111	80	15	103	-	-	1,671	3,925
1972	190	45	-	142	4	960	3	123	164	73	92	251	-	-	2,047	4,741
1973	486	47	-	223	4	1,135	7	164	213	71	135	459	48	-	2,992	6,256
1974	461	5	-	469	-	979	17	4	300	74	190	713	42	23	3,277	6,112
1975	715	15	-	280	3	698	18	232	388	117	282	762	57	27	3,594	6,025
1976	1,230	5	-	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,295
1977	1,380	48	-	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807
1978	1,144	6	-	555	62	645	64	654	573	385	649	919	54	41	5,751	8,363
1979	1,356	8	-	304	88	690	31	658	420	281	636	1,080	42	42	5,636	8,456
1980	1,261	25	-	9	28	481	22	554	348	172	488	857	27	26	4,298	6,909
1981	1,129	-	-	-	(10)	406	7	319	366	81	311	620	48	35	3,324	5,996
1982	552	5	-	35	3	412	7	26	248	92	170	514	42	40	2,145	5,113
1983	337	14	-	48	10	422	-	-	338	30	240	302	61	59	1,863	5,051
1984	325	36	-	10	12	548	5	1	343	117	323	216	55	58	2,049	5,437

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(1) Original member 1960.

(2) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(3) Joined in 1961.

(4) Joined in 1962.

(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

(6) Joined in 1969.

(7) Joined in 1971.

(8) Joined in 1973.

(9) Joined as an associate member in 1973 and became a full member in 1975.

(10) Less than 500 barrels per day.

Source: U.S. Energy Information Administration. P.A.D. District Supply/Disposition Annual
1981-1984—U.S. Energy Information Administration, Petroleum Supply Annuals.

U.S. CRUDE OIL IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	Total U.S. Crude Oil Imports
1960	77	130	45	36	17	472	-	-	-	-	-	-	-	-	777	1,015
1961	62	121	53	60	20	427	10	-	-	-	-	-	-	-	753	1,045
1962	67	112	43	49	2	463	26	18	67	-	-	-	-	-	847	1,126
1963	79	81	44	62	1	478	16	19	59	-	-	-	-	-	839	1,131
1964	97	64	48	66	-	476	20	39	63	-	-	-	-	-	873	1,198
1965	132	55	27	78	16	432	12	41	61	-	-	-	-	-	854	1,238
1966	126	26	19	84	26	404	1	69	50	-	-	-	-	-	805	1,225
1967	81	19	11	65	5	359	-	42	62	5	-	-	-	-	649	1,128
1968	52	43	29	58	-	344	-	114	73	15	-	-	-	-	728	1,290
1969	35	34	43	42	-	306	1	134	89	14	1	-	-	-	699	1,490
1970	40	33	-	33	-	268	-	47	70	63	6	-	-	-	560	1,324
1971	115	29	-	106	11	303	-	53	110	80	13	95	-	-	915	1,681
1972	174	36	-	136	4	255	3	109	163	73	87	243	-	-	1,283	2,216
1973	462	42	-	217	4	344	7	133	200	71	119	448	47	-	2,094	3,244
1974	438	5	-	463	-	319	17	4	284	69	180	697	42	23	2,541	3,477
1975	701	4	-	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105
1976	1,222	1	-	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287
1977	1,369	42	-	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,568
1978	1,142	5	-	554	62	181	64	638	533	385	634	910	38	38	5,184	6,356
1979	1,347	5	-	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519
1980	1,250	27	-	8	28	156	22	548	314	172	456	841	17	25	3,864	5,263
1981	1,112	-	-	-	-	147	7	317	318	77	261	611	38	35	2,922	4,396
1982	530	2	-	35	3	155	7	23	226	81	90	510	32	40	1,734	3,488
1983	321	7	-	48	10	164	-	-	315	18	176	301	56	59	1,477	3,329
1984	309	24	-	10	12	253	4	-	304	90	194	207	47	57	1,511	3,426

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(1) Original member 1960.
(2) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.
(3) Joined in 1961.
(4) Joined in 1962.
(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.
(6) Joined in 1969.
(7) Joined in 1971.
(8) Joined in 1973.
(9) Joined as an associate member in 1973 and became a full member in 1975.
(10) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues
1981-1984: U.S. Energy Information Administration, Petroleum Supply Annuals

Section XIV
Table 5

OPEC REFINERY CAPACITY
Thousands of Barrels per Day

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Algeria	43.7	57.5	57.5	57.5	57.5	57.5	57.5	115.8	115.8	115.8	115.8	115.8
Ecuador	18.2	10.9	19.4	34.5	34.5	34.5	35.5	35.5	35.5	43.9	43.9	43.9
Gabon	—	—	11.9	11.9	14.0	16.0	17.0	17.0	17.0	17.0	20.0	44.0
Indonesia	250.0	254.8	265.2	265.2	270.2	299.2	381.4	381.4	381.4	381.4	381.4	499.7
Iran	466.5	524.2	524.2	594.0	594.0	594.0	605.0	605.0	660.0	690.0	810.0	810.0
Iraq	81.7	81.7	97.7	102.7	102.7	115.7	115.7	115.7	183.5	253.5	253.5	253.5
Kuwait	342.0	342.0	342.0	437.0	437.0	437.0	437.0	484.5	541.5	541.5	609.0	609.0
Libya	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	70.0	70.0	70.0
Nigeria	32.0	32.0	42.0	42.0	42.0	55.0	57.0	57.0	57.0	57.0	57.0	57.0
Qatar	.6	.7	.7	.7	.7	.7	.7	.7	.7	.7	9.7	9.7
Saudi Arabia	302.5	335.0	335.0	347.0	347.0	676.0	676.0	676.0	676.0	676.0	703.0	703.0
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	15.0
Venezuela	1,119.8	1,134.5	1,216.8	1,222.2	1,258.0	1,289.4	1,294.9	1,473.9	1,473.9	1,444.9	1,444.9	1,444.9
TOTAL OPEC	2,667.0	2,783.3	2,922.4	3,124.7	3,167.6	3,585.0	3,687.7	3,972.5	4,152.3	4,320.7	4,518.2	4,675.5

Source: OPEC Annual Statistical Bulletin

OPEC REFINERY CAPACITY
Thousands of Barrels per Day

Country	1977	1978	1979	1980	1981	1982	1983
Algeria	115.8	115.8	135.1	471.2	471.2	471.2	471.2
Ecuador	99.5	99.5	94.5	94.5	94.5	94.5	94.6
Gabon	44.0	44.0	44.0	44.0	44.0	44.0	44.0
Indonesia	499.7	499.7	499.7	499.7	499.7	499.7	879.7
Iran	1,050.0	1,080.0	1,080.0	1,320.0	1,320.0	670.0	670.0
Iraq	253.5	295.5	305.5	305.5	305.5	215.5	365.5
Kuwait	594.0	594.0	594.0	594.0	594.0	594.0	614.0
Libya	130.0	130.0	130.0	130.0	130.0	130.0	130.0
Nigeria	57.0	152.0	152.0	247.0	247.0	247.0	247.0
Qatar	9.7	9.7	10.5	10.5	10.5	12.2	62.2
Saudi Arabia	703.0	758.0	758.0	878.0	878.0	878.0	1,048.0
United Arab Emirates	15.0	15.0	15.0	15.0	135.0	135.0	195.0
Venezuela	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9	1,323.1	1,323.1
TOTAL OPEC	5,016.1	5,238.1	5,263.2	6,054.3	6,174.3	5,314.2	6,144.3

Source: OPEC Annual Statistical Bulletin

Section XIV
Table 6

OPEC REVENUES FROM OIL
Millions of Dollars

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Algeria	76.0	128.0	199.1	261.8	266.7	271.9	321.0	613.3	987.7	3,299.2
Ecuador	—	—	—	—	—	—	—	29.7	128.8	413.9
Gabon	.8	.8	2.5	3.5	4.0	4.3	9.4	18.1	29.4	172.7
Indonesia	97.9	97.4	109.0	133.1	201.8	254.3	336.2	505.8	687.7	1,364.3
Iran	514.1	608.2	751.6	853.4	922.8	1,109.3	1,851.1	2,396.0	4,399.2	17,821.8
Iraq	367.9	394.2	364.4	487.9	479.0	521.0	840.0	575.0	1,843.0	5,700.0
Kuwait	598.2	637.8	714.7	701.8	759.1	820.7	954.3	1,403.7	1,734.7	6,542.6
Libya	351.1	522.8	625.0	1,001.8	1,175.2	1,351.3	1,674.2	1,562.6	2,222.9	5,999.0
Nigeria	36.3	57.5	59.6	45.7	89.5	247.0	846.8	1,117.2	2,048.0	6,654.2
Qatar	69.2	90.7	105.4	111.8	117.6	122.4	199.6	255.2	463.1	1,849.0
Saudi Arabia	664.1	789.9	903.6	926.4	949.2	1,214.0	1,884.9	2,744.6	4,340.0	22,573.5
United Arab Emirates	33.3	99.7	109.6	153.4	190.8	233.0	431.0	551.0	900.0	5,536.0
Venezuela	1,097.1	1,074.8	1,213.3	1,223.0	1,228.6	1,376.8	1,674.7	1,901.6	3,028.7	9,270.6
TOTAL OPEC	3,906.0	4,501.8	5,157.8	5,903.6	6,384.3	7,526.0	11,023.2	13,673.8	22,813.2	87,196.8

Source: OPEC Annual Statistical Bulletin

Section XIV
Table 6a

OPEC REVENUES FROM OIL
Millions of Dollars

Country	1975	1976	1977	1978	1979	1980	1981	1982	1983
Algeria	3,261.8	3,699.0	4,253.7	4,589.1	7,513.0	12,500.0	10.700.0	8,500.0	9,690.0
Ecuador	292.8	532.7	499.3	500.0	800.0	1,393.9	1,560.1	1,184.2	1,198.2
Gabon	483.5	800.0	600.0	600.0	900.0	1,800.0	1,600.0	1,500.0	1,300.0
Indonesia	3,233.1	4,465.7	4,692.3	5,200.0	8,100.0	12,858.8	14,392.7	12,702.8	10,924.4
Iran	18,433.2	20,242.9	21,210.2	19,300.0	20,500.0	13,500.0	9,300.0	15,900.0	18,696.0
Iraq	7,500.0	8,500.0	9,631.0	10,200.0	21,291.0	26,100.0	10,400.0	9,700.0	8,360.0
Kuwait	6,393.1	6,869.5	7,515.7	7,699.5	16,863.0	17,900.0	13,800.0	7,500.0	8,700.0
Libya	5,101.0	7,500.0	8,850.0	8,400.0	15,223.0	22,600.0	15,300.0	13,900.0	10,900.0
Nigeria	7,422.1	7,715.0	9,600.0	7,900.0	15,900.0	23,405.0	16,713.0	13,086.0	10,155.0
Qatar	1,684.9	2,091.9	1,994.0	2,200.0	3,471.1	4,914.1	4,591.3	3,882.2	2,361.3
Saudi Arabia	25,675.8	30,754.9	36,358.4	32,233.8	57,522.0	102,212.0	113,200.0	76,000.0	47,600.0
United Arab Emirates	6,000.0	7,000.0	9,030.0	8,200.0	12,862.0	19,500.0	18,700.0	15,500.0	11,700.0
Venezuela	6,968.0	7,713.2	8,106.2	7,319.0	11,647.1	16,343.9	17,401.0	13,542.5	12,323.7
TOTAL OPEC	92,449.3	107,884.8	122,520.8	114,341.4	192,592.2	275,027.7	247,658.1	192,897.7	153,908.6

Source: OPEC Annual Statistical Bulletin

Section XIV
Table 7

OPEC MARKETED PRODUCTION OF NATURAL GAS
Millions of Cubic Meters

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Algeria	1,780	1,961	2,128	2,357	2,972	2,599	6,573	4,092	3,196	3,807	7,516
Ecuador	—	—	—	14	14	14	14	17	28	28	31
Gabon	11	11	17	24	22	32	31	34	283	637	262
Indonesia	3,156	510	623	633	1,193	1,239	1,253	1,229	800	1,127	2,322
Iran	1,242	1,404	2,850	4,370	4,944	12,881	14,278	16,342	17,789	20,661	20,282
Iraq	498	607	484	485	762	784	925	935	910	836	1,299
Kuwait	1,817	2,380	2,780	3,339	3,727	2,037	2,104	2,487	2,786	2,931	3,212
Libya	—	—	—	—	—	294	708	2,832	4,531	4,075	4,635
Nigeria	98	176	181	147	64	111	184	273	303	404	402
Qatar	81	82	113	514	852	1,005	1,005	1,103	1,580	1,298	2,003
Saudi Arabia	1,031	1,133	1,136	1,639	1,744	1,230	1,378	1,178	2,316	3,835	3,772
United Arab Emirates	—	—	454	600	569	756	1,045	1,038	1,251	1,199	1,090
Venezuela	7,034	5,983	6,300	6,850	7,065	7,710	7,472	7,427	9,149	9,669	9,404
TOTAL OPEC	16,748	14,247	16,994	20,972	23,928	30,692	36,970	38,987	44,922	50,507	56,230

SOURCE: OPEC Annual Statistical Bulletin

Section XIV
Table 7a

OPEC MARKETED PRODUCTION OF NATURAL GAS
Millions of Cubic Meters

Country	1976	1977	1978	1979	1980	1981	1982	1983
Algeria	7,585	5,738	8,078	15,548	11,647	21,862	26,686	37,197
Ecuador	31	40	40	35	31	55	73	85
Gabon	169	177	165	150	159	143	150	150
Indonesia	2,338	5,652	10,865	15,765	18,503	18,775	19,076	21,992
Iran	19,997	18,852	16,948	17,913	7,138	5,950	7,200	8,900
Iraq	1,802	1,178	1,221	1,751	1,281	620	680	650
Kuwait	3,864	4,213	4,721	6,251	4,071	4,684	3,675	3,606
Libya	4,779	5,051	5,121	6,785	5,170	3,150	3,350	4,050
Nigeria	632	500	380	1,378	1,070	2,155	1,413	2,298
Qatar	1,094	1,551	1,479	4,362	5,025	4,010	4,807	4,929
Saudi Arabia	4,434	5,565	7,297	9,167	11,431	22,245	8,950	5,530
United Arab Emirates	1,371	3,796	5,164	5,431	6,863	9,075	8,320	7,790
Venezuela	10,200	11,637	11,422	13,132	13,854	14,459	17,005	15,637

Source: OPEC Annual Statistical Bulletin

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

Table 1. Estimated Average Number of Empployees in Important Segments of the Petroleum Industry

Table 2. Conversion Table

Section XV
Table 1

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1983

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	1,758	402	29	104	2,998	4,558	7,375	17,224
Alaska	7,535	160	-	1,143	289	523	1,205	10,855
Arizona	163	76	-	100	964	1,304	7,311	9,918
Arkansas	3,946	765	NA	NA	2,448	2,594	4,414	14,167
California	40,081	27,624	662	1,040	10,941	15,776	59,222	155,346
Colorado	26,448	600	32	107	2,397	3,022	8,456	41,062
Connecticut	177	124	77	15	1,302	2,622	9,068	13,385
Delaware	40	1,032	11	-	346	351	1,360	3,140
Florida	1,062	64	123	57	2,253	6,821	28,240	38,620
Georgia	113	109	138	510	3,602	6,013	14,818	25,303
Hawaii	NA	413	-	-	353	503	3,577	4,846
Idaho	149	-	-	NA	466	1,603	2,100	4,318
Illinois	6,116	6,729	791	1,022	8,659	10,727	23,848	57,892
Indiana	934	3,026	227	469	3,035	3,917	14,009	25,617
Iowa	30	-	56	172	1,138	2,975	11,177	15,548
Kansas	15,565	3,140	308	1,884	4,575	2,680	7,253	35,405
Kentucky	3,409	3,574	54	159	3,155	3,010	8,891	22,252
Louisiana	79,200	12,400	NA	1,300	7,000	5,800	8,400	114,100
Maine	14	-	-	NA	NA	1,216	2,519	3,749
Maryland	-	-	229	-	1,266	3,530	12,815	17,840
Massachusetts	68	79	320	8	4,796	3,521	13,691	22,483
Michigan	4,117	1,998	436	217	8,098	5,040	19,981	39,887
Minnesota	NA	NA	NA	196	2,457	2,677	14,510	19,840
Mississippi	8,100	1,660	120	151	2.170	3,530	4,670	20,401
Missouri	165	NA	377	252	5,010	6,827	14,282	26,913
Montana	3,760	1,026	-	92	117	1,529	2,406	8,930
Nebraska	223	15	154	97	3,601	1,758	6,078	11,926
Nevada	313	38	-	20	555	402	3,332	4,660
New Hampshire	1	-	3	3	315	450	2,350	3,122
New Jersey	110	8,300	1,020	165	2,054	4,034	19,205	34,888
New Mexico	12,988	971	22	301	3,771	1,774	4,029	23,856
New York	2,680	11,145	373	126	7,083	11,002	28,229	60,638
North Carolina	13	-	175	116	2,427	5,087	9,193	17,011
North Dakota	5,387	240	-	172	665	2,377	2,019	10,860
Ohio	11,283	5,794	624	673	7,715	5,996	27,289	59,374
Oklahoma	74,870	7,648	290	2,454	5,773	7,124	6,373	104,532
Oregon	82	NA	NA	NA	1,391	2,173	7,292	10,938
Pennsylvania	4,868	11,953	1,300	730	8,702	10,968	26,472	64,993
Rhode Island	28	-	NA	-	848	572	2,313	3,761
South Carolina	14	NA	NA	NA	718	3,411	6,904	11,047
South Dakota	124	3	-	62	130	1,426	2,490	4,235
Tennessee	763	318	53	45	1,744	4,558	12,084	19,565

Section XV
Table 1a

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1983

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Texas	252,408	40,931	913	5,245	29,375	25,589	34,788	389,249
Utah	4,493	863	NA	83	2,992	1,945	4,065	14,441
Vermont	NA	-	NA	-	124	282	1,656	2,062
Virginia	200	200	NA	100	2,500	7,400	13,700	24,100
Washington	214	1,554	61	84	1,551	2,972	9,279	15,715
West Virginia	5,866	482	64	133	5,454	2,065	3,731	17,795
Wisconsin	15	NA	-	149	2,917	3,713	13,234	20,028
Wyoming	19,655	1,597	2	443	1,190	1,394	3,364	27,645
District of Columbia	—	123	—	—	704	285	1,087	2,199
Total U.S.	599,548	157,176	9,044	20,199	174,134	211,426	556,154	1,727,681

NA Not Available

Note: The above estimates represent results of the Independent Petroleum Association of America's survey of State Labor Departments. The totals of these individual state estimates do not agree with totals shown by the Bureau of Labor Statistics in its "Employment and Earnings" publication.

THE FOLLOWING EQUIVALENTS ARE DERIVED FROM THE USE OF BRITISH THERMAL UNIT HEAT VALUES(1)

		Crude Petroleum (42 gal barrel)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu ft)	Distillate Fuel Oil (42 gal barrel)	Residual Fuel Oil (42 gal barrel)	Liquefied Pet. Gas (42 gal barrel)
Crude Petroleum	42 Gal.Bbl.equals	-	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	Short Ton equals	4.379	-	0.969	24.541	4.361	4.040	6.333
Bituminous Coal and Lignite	Short Ton equals	4.517	1.031	-	25.314	4.498	4.167	6.532
Natural Gas-Dry	1000 Cu.Ft.equals	0.178	0.041	0.040	-	0.178	0.165	0.258
Distillate Fuel Oil	42 Gal.Bbl.equals	1.004	0.229	0.222	5.628	-	0.927	1.452
Residual Fuel Oil	42 Gal.Bbl.equals	1.084	0.248	0.240	6.074	1.079	-	1.567
Liquefied Petroleum Gas	42 Gal.Bbl.equals	0.692	0.158	0.153	3.875	0.689	0.638	-
(1) B.T.U. Heat Values as used by Bureau of Mines	1000s	5,800	25,400	26,200	1,035	5,825	6,287	4,011

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248; Kerosine 5,670; Lubricants 6,064.8; Wax 5,537.3; Asphalt 6,636; Miscellaneous 5,796
Natural Gasoline 4,620 per 42 gallon barrel

GALLON, BARREL, POUND AND TON EQUIVALENTS FOR CONVERTING MEASURES OF CRUDE PETROLEUM AND REFINED PETROLEUM PRODUCTS

	Gravity at 60° F(2)	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pound
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	-	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	-	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

(2) For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu.Ft. = One 42 Gallon Barrel
U.S. Gallon = .833 Imperial Gallon
Imperial Gallon = 1.2 U.S. Gallons

Source: ASTM-IP Petroleum Measurement Tables